

UROSKOP Access

SP

Startup

System

UROSKOP Access Imaging System VA14A

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Print No.: SPL5-330.815.05.02.02

Replaces: SPL5-330.815.05.01.02

English

Doc. Gen. Date: 02.05

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

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Definitions and abbreviations

Abbreviation	Definition
ACR-NEMA	American College of Radiology - National Electrical Manufacturers Association
BIOS	Basic Input Output System, lowest level of PC configuration
AET	Application Entity Title - name of the DICOM service that communicates either as the user (SCU) or the provider (SCP).
CD	Compact Disc
CDR	Compact Disc Recordable
COMP/ON	Computer on
CSE	Customer Service Engineer
DICOM	Digital Image Communication in Medicine (ACR-NEMA standard)
DHCP	Dynamic Host Configuration Protocol - procedure for assigning numeric IP addresses to nodes, in which blocks of addresses are leased to clients on a first-come, first-served basis. Typically, DHCP is combined with WINS so an IP address is both dynamically assigned and automatically associated with a domain name. This can be combined with DNS, resulting in a dynamically assigned numeric IP address that is automatically associated with both NetBIOS and Internet names.
DNS	Domain Name Services - used for address parsing with numeric IP addresses being linked to names in the Internet format.
FTP	File Transfer Protocol - a client-server application that transfers files from one computer to another.
Gateway	Controls data traffic between two networks above the network layer.
HIS	Hospital Information System
Chap.	Chapter
LAN	Local Area Network (in this case: always Ethernet)
LMHOSTS	Address parsing method in which numeric IP addresses are statically linked to NetBIOS names. The LMHOSTS file is checked to determine whether the name is addressed.
Navigator	Main operating console
MC	Main Console
MOD	Magneto-Optical Disk
NetBIOS	Network Basic Input Output System - contains various network services and program interfaces. NetBIOS services run on protocols such as TCP/IP.

Abbreviation	Definition
NIC	Network Interface Card - an expansion card that provides a physical connection to the network.
NT	"New Technology" operating system - trademark of Microsoft, Inc.
OI	Operating Instructions
PB	Patient Browser
PPP	Point-to-Point Protocol - data connection and network protocol for serial connections (such as dial-up modems).
RAS	Remote Access Services - a Windows NT service that supports dial-in and dial-out connections using modems and ISDN.
RIS	Radiology Information System
Router	A multi-port computer or a dedicated hardware component that examines network layer addresses for data packets and sends them to a different network as appropriate.
SC	Satellite Console
SCU	Service Class User
SCP	Service Class Provider
SI	Service Instructions
SYS/ON	System on (meaning the complete system)
TCP/IP	Transport Control Protocol/Internet Protocol - the standard protocol for networks.
UI	User Interface
USC	Uptime Service Center
URL	Uniform Resource Locator
VPN	Virtual Private Network
WINS	Windows Internet Name Service - used for address parsing with IP addresses being linked dynamically to NetBIOS names. DNS can be combined with WINS.
WIP	Work in Progress
Wizard	Satellite console

General information

This chapter describes the software installation.

all displayed images show UROSKOP Access imaging system software VA14A.

NOTE

When installing the imaging system software, the system compatibility list software must be taken into consideration.

Imaging system software VA14A can be installed on PC types Celsius 420, Celsius 444, Celsius M410.

This document describes how the SCSI driver update required for PC type Celsius 420 is performed.

NOTE

- Steps to be performed are preceded by a bullet point.
 - If the text below the step to be carried out is indented, it is for general information.

NOTE

Depending on the progress of the configuration, the "Next" button can also be displayed as the "Finish" button.

NOTE

Once the "Save" button has been selected in the individual screens, the message "..... successfully saved" appears following a successful save (Fig. 1 / p. 8).

- Select "OK"



Fig. 1: Successfully saved

NOTE

The symbols "/" and "\" may not be used in entries in the configuration menus.

Use of these symbols can result in serious problems.

The symbol "-" may be used.

NOTE

The symbol "_" may not be used in host name entries in the configuration menus of the service software.

Use of this symbol can result in serious problems.

Reboot, restart, and shutdown

If one of the following messages appears, proceed as described in the note.

Restart

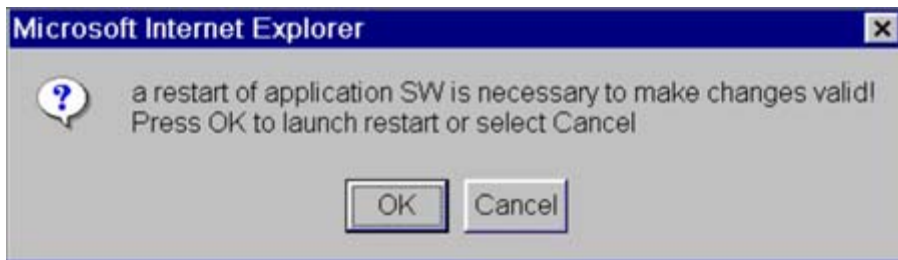


Fig. 2: Restart

Reboot



Fig. 3: Reboot

- If one of the above windows is displayed, click "OK".

Reboot

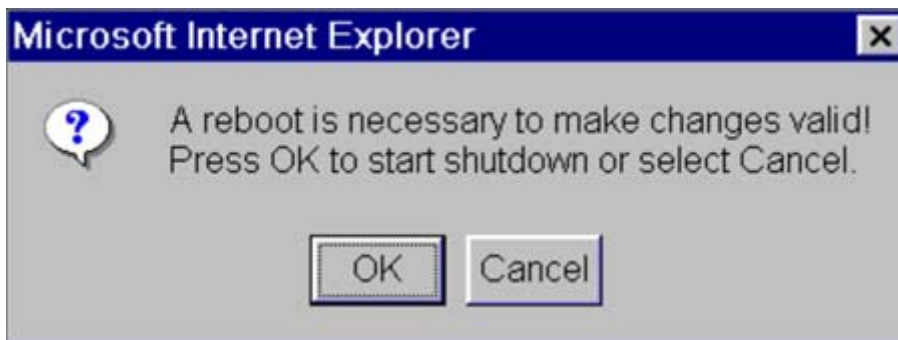


Fig. 4: Reboot_Shutdown

- If this window is displayed, select "OK".
- Select "Home".

To activate changes in the UROSKOP Access system, a shutdown must always be performed, i.e., the complete UROSKOP Access system must be shut down and restarted.

Requirements

Important	The system must be disconnected from the network during installation until a host name and a valid IP address have been assigned. The system is to be subsequently reconnected. Prior to beginning installation, make a note of the service key and the local network configuration (IP address, computer name, subnet mask, gateway) from the system data in the table. TCP/IP LAN settings are located in the service software under "Configuration/Local Host." Prior to software installation, ensure that all archiving, film, copying, network jobs have been completed and the corresponding queues are empty (local, network, and film job status). These status platforms can be called up via the patient browser.
------------------	---

Tab. 1 Local network configurations

Computer name	
IP address:	
Subnet mask	
Gateway:	
Service key:	

Installation routine

It must be ensured that action is only taken when this is described.

Create a backup

- If possible, create a backup of "SW-Settings02", "ASPIA Settings" and the "Exam Sets" according to chapter [\(Backup / p. 158\)](#).
- Check on the basis of chap. 14 whether the current imaging system software is installed correctly.

NOTE

If the check according to the "Checking the Installation Process" chapter determines that the present imaging system software is installed correctly, proceed with the installation of imaging system software VA14A with the aid of the backup.

NOTE

If the check according to the "Checking the Installation Process" chapter determines that the present imaging system software is not installed correctly, the newly created backup may not be used. Imaging system software VA14A is to be installed in accordance with the this document without the use of a backup.

NOTE

The following data must be saved in case the current imaging system software or the present backup are defective:

- All customer-specific user programs in the UI under Options/Configuration/User programs.
- All files under C:\Aspia\service\html\gfx and C:\Aspia\service\html\report are to be saved on the service laptop.

Save patient images

- Save all patient images.
 - E.g., in an archive or on CD (see operating instructions).

NOTE

UROSOP Access imaging system software VA14A is comprised of 1 CD with material number 77 57 532.

NOTE

A backup of software versions VA13B/VA13C can be restored to software version VA14A.

PC types

PC Celsius 420: 2 CD drives

PC Celsius 444: 1 CD drive (green housing)

PC Celsius M410: 1 CD drive (silver/black housing)

NOTE

After concluding installation of imaging system software VA14A, the Microsoft security patches currently available in the intranet must be installed as applicable.

Security patch MS03-039 (and associated SI SP022/03/R) is already included in software version VA14A and may not be installed.

NOTE

This concludes the "Preparatory Activities" chapter.

Installation process

NOTE

After the PC has been changed in the image container and all connection lines have been reconnected or when the software is to be reinstalled on the ASPIA PC, follow the subsequently described workflow.

- Open the PC's CD-ROM drive.
- Insert the installation CD with the "UROSKOP Access imaging system VA14A" label.
- Close the CD-ROM drive.
- Switch the PC off/on via the power switch.
 - Information is displayed on the monitor. The PC starts automatically and boots from the CD:

NOTE

It is possible for the text not to be visible on the monitor (same color text and background).

This is not an error. Switch the PC off/on repeatedly if necessary.

After a short time, the "Installation startup" mask is displayed.

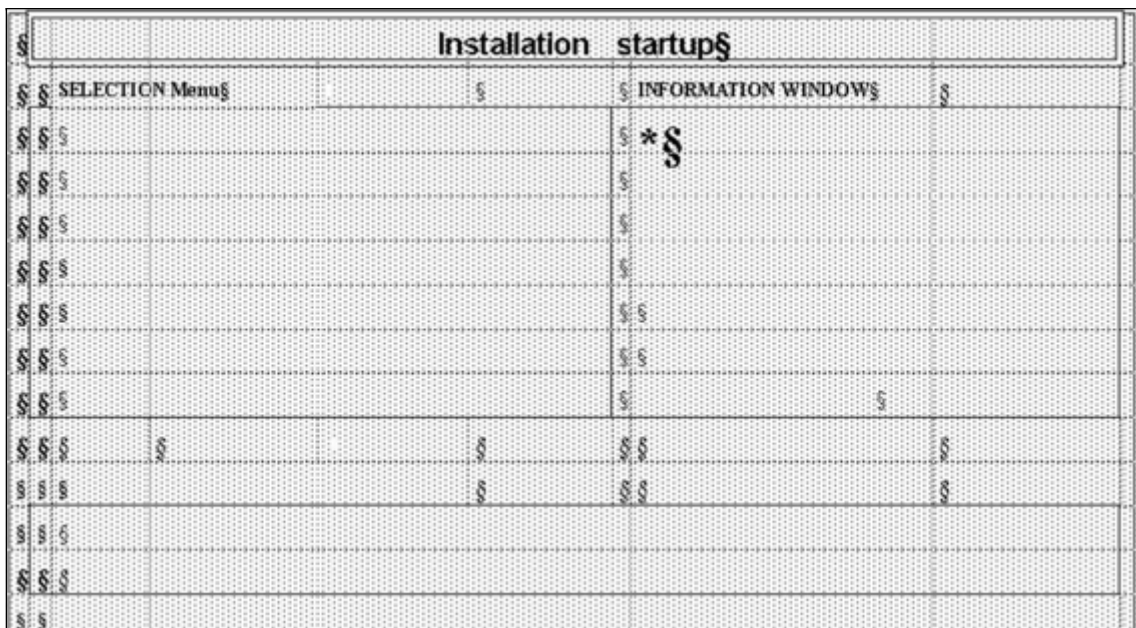


Fig. 5: Installation start-up mask

* Information is displayed here.

The PC emits a sequence of tones.

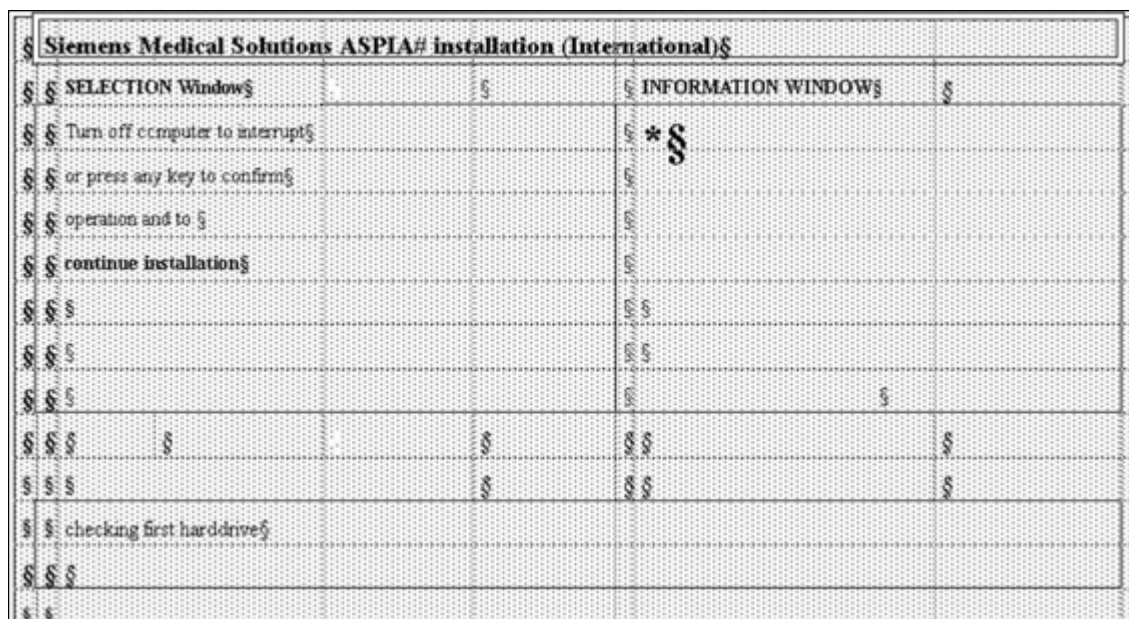


Fig. 6: Installation start-up mask

The following prompt is displayed:

- "Turn off computer to interrupt or press any key to confirm operation and to **continue installation**"
- Press the "Enter" button.
 - The PC starts automatically; information is again displayed on the monitor.

After a short time, the "Installation startup" mask is displayed.

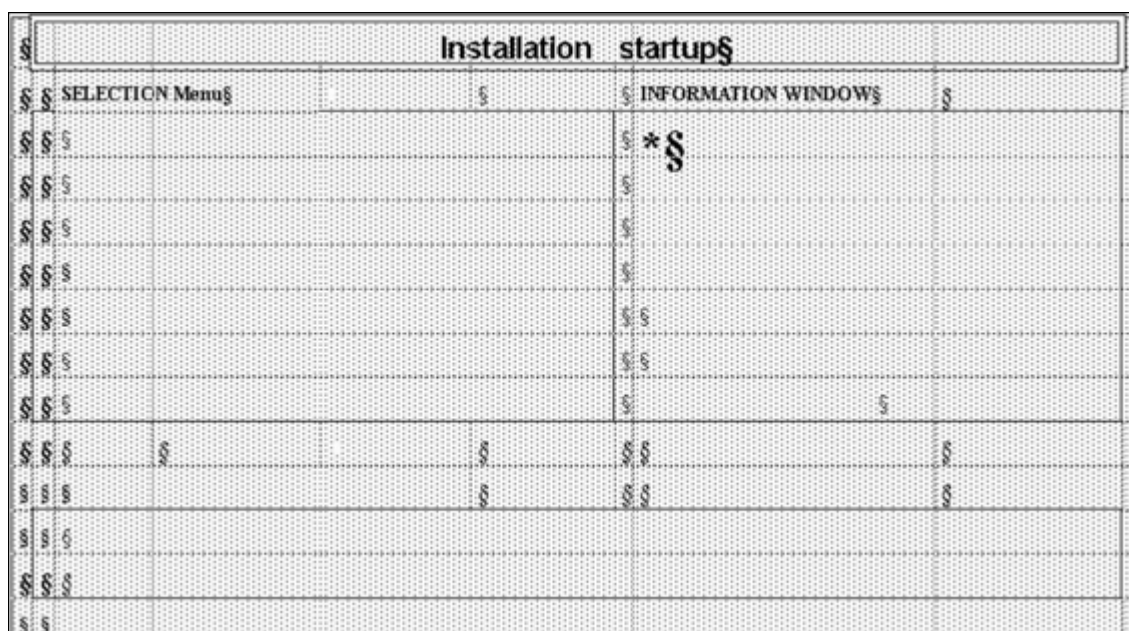


Fig. 7: Installation start-up mask

* Information is displayed here.

After a short time, the following mask is displayed:

Fig. 8: Installation start-up mask

* Information is displayed here.

- Use the arrow keys to select the "Machine name".
- Press the "Enter" button.
- For "Machine name", enter the "Computer name" indicated in the table on [\(Tab. 1 / p. 10\)](#).
 - If the "Computer name" is not available, e.g., in the case of initial installation of UROSKOP Access, refer to the SPL checklist ([Supplementary configuration / p. 120](#)) or ask the customer's network administrator.
 - The maximum length is 10 characters.

NOTE

The same name is to be used for "Computer name" as is entered for the on-site computer (except for in the case of initial installations of UROSKOP Access) under "Configuration" in the service software "Local Host/TCP IP LAN/Computer name".

The computer name may first be changed following completion of installation and configuration of the imaging system software.

- Press the "Enter" button.
- Use the arrow keys to select "CONTINUE INSTALLATION".
- Press the "Enter" button.

The following mask is displayed:

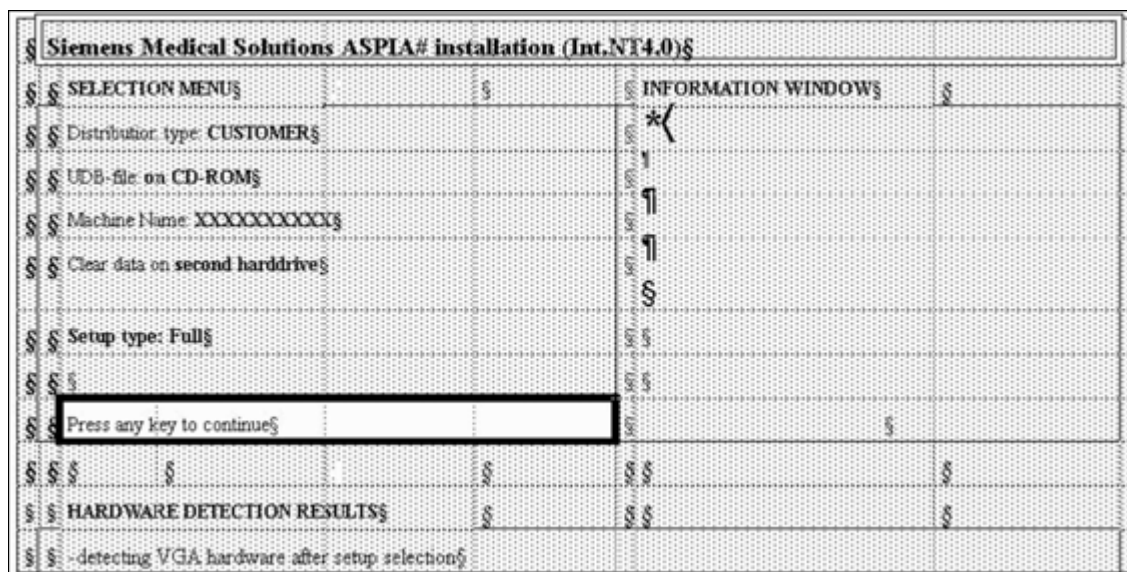


Fig. 9: Installation start-up mask

* Information is displayed here.

The message "Press any key to continue" is displayed.

The PC emits tones.

- Press "Enter".

The installation files are prepared.

The following mask is displayed on the screen:

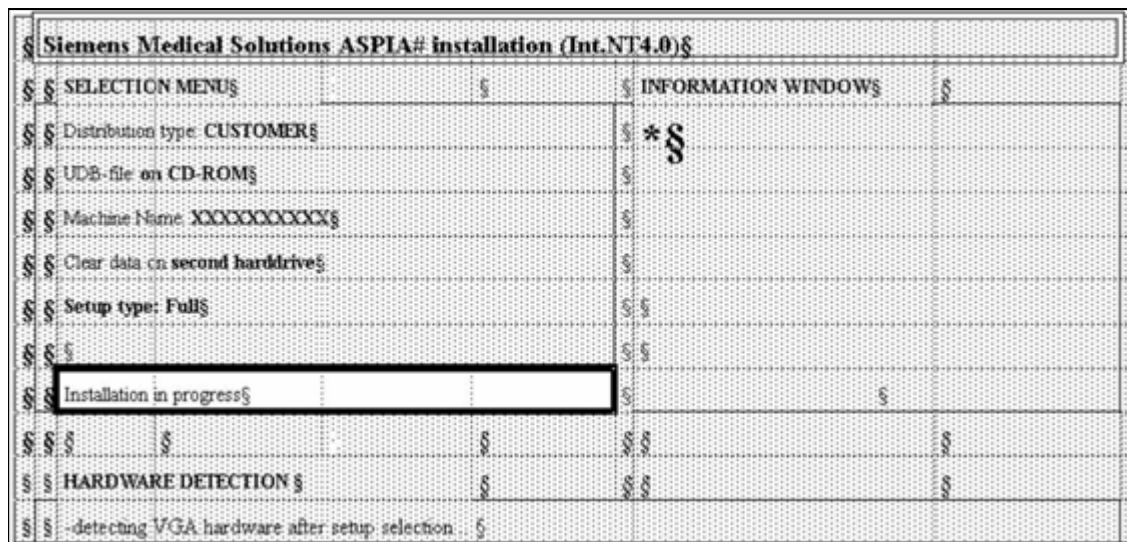


Fig. 10: Installation start-up mask

* Information is displayed here.

The CD-ROM drive opens after approx. 10 minutes.

- Remove the CD-ROM and close the CD-ROM drive.

The (Fig. 11 / p. 16) mask is displayed regardless of whether the CD-ROM has been removed:

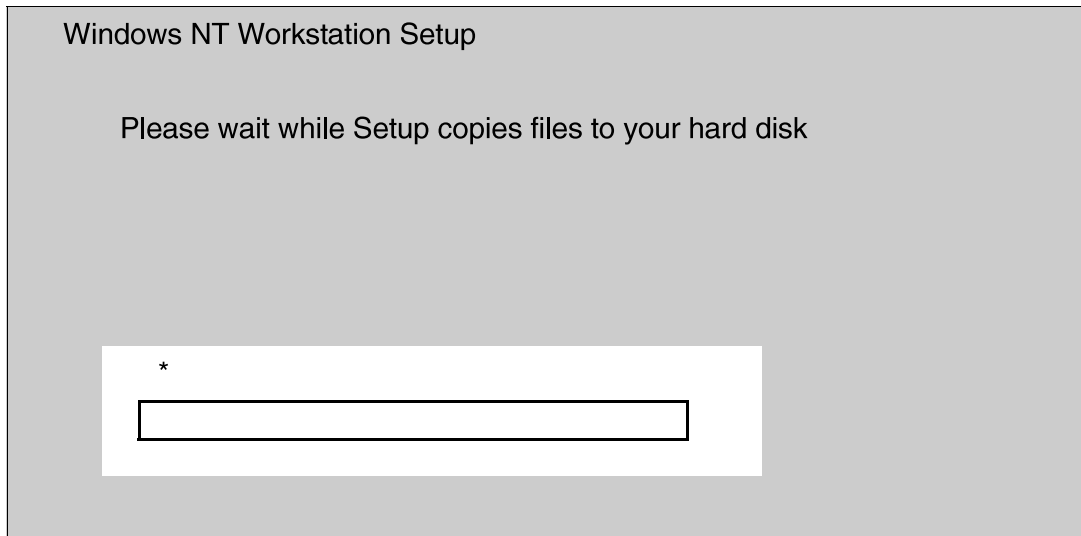


Fig. 11: Windows NT workstation setup

* Information is displayed here.

The imaging system is installed.

Installation continues automatically (duration approx. 15 minutes).

Various information is displayed on the screen. Ignore all system prompts to confirm something by clicking on "OK".

NOTE

When installing on PC type Celsius 420, a blue screen with the following error message may be displayed:

***** STOP: ...**

IRQL_NOT_LESS_OR_EQUAL* Address ...-Aic78u2.sys**

It is not necessary to restart the installation process. Switch the PC off/on repeatedly if necessary. The PC automatically continues the installation process.

NOTE

The CSE may not perform any manual operations until the monitor shows the following image. Do not confirm the prompt "Press any key to continue ...".

Subsequent operations depend on the PC type.

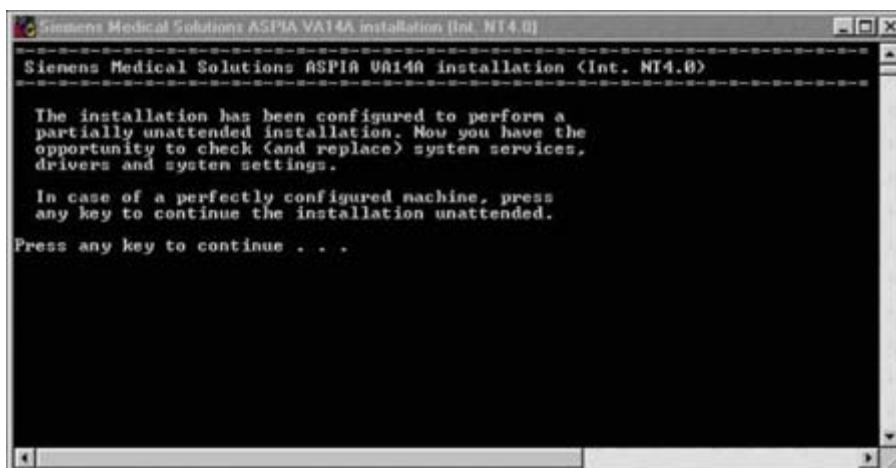


Fig. 12: ASPIA VA14A installation

NOTE

This concludes the "Imaging System Software Installation" chapter.

If the on-site PC type is a Celsius 444/Celsius M410, skip chapter [\(Update the SCSI Driver / p. 18\)](#).

Update the SCSI driver (only valid for PC type Celsius 420)

NOTE

Only applies to PC type Celsius 420!

Confirmation of the prompt "Press any key to continue" installs the Windows NT service pack without the necessary update of the SCSI driver.

Do not confirm the "Press any key to continue" prompt by pressing a key. Instead, proceed as described below.

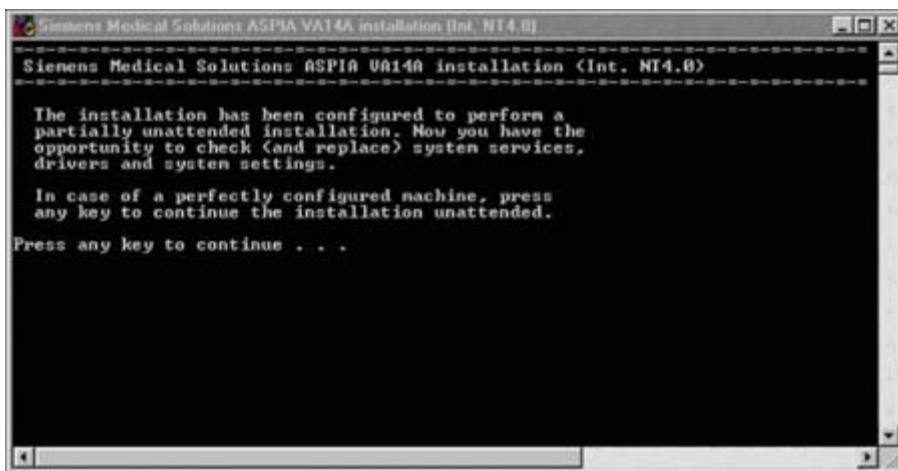


Fig. 13: ASPIA VA14A installation

- Minimize the DOS window shown above.
- Launch Windows Explorer via the Start button/Run and subsequent entry of "Explorer".
- Access the control panel in Explorer.
- Open the SCSI adapter.
- Select the "Drivers" tab.
 - The following adapters are displayed:
 - Adaptec AHA-294xU2/295xU2/AIC-789x... (started)
 - IDE CD-ROM Controller (ATAPI 1.2)... (started)
- Press the "Add" button.
 - The "Creating driver list" window is displayed as long as the system is searching for adapter information. The "Install driver" dialog is subsequently displayed.
- Press the "Have disk" button.
- Insert the "Service tools Uroskop Access VA01A" CD.
- Enter "Install from disk" "<CD-ROM>:\winnt\4_0" in the dialog and confirm with "OK".
- Select adapter "Adaptec AHA-294xU2/295xU2/AIC-789x..." and press "OK".
 - The "Windows NT setup" message box is displayed.
- Press the "New" button.
- Enter "<CD-ROM>:\winnt\4_0" and press "Continue".
 - The driver files are copied.

- Confirm the "System settings change" message box with "Yes".
 - The system is automatically restarted.

NOTE

The CSE may not perform any manual operations until the monitor shows the following image.

NOTICE

Only applies to PC type Celsius 420!

Do not confirm the "Press any key to continue" prompt by pressing a key. Instead, proceed as described below.

- ⇒ Confirmation of the prompt "Press any key to continue" installs the Windows NT service pack without the necessary update of the SCSI driver.

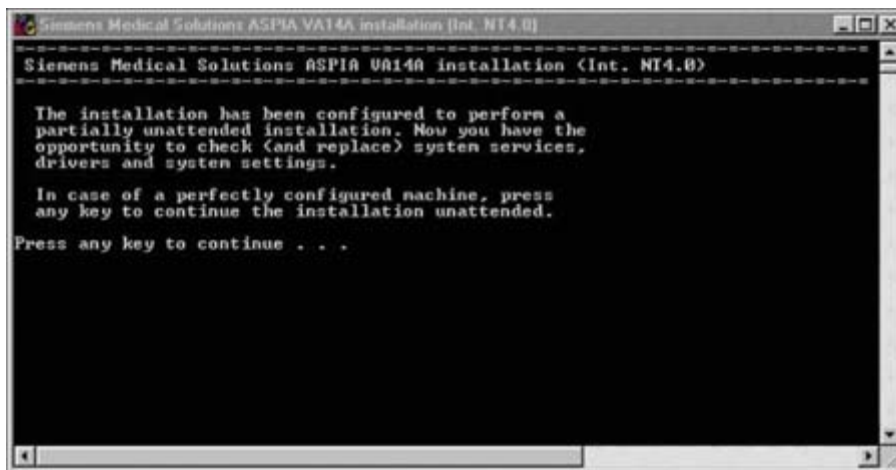


Fig. 14: ASPIA VA14A installation

- Minimize the DOS window shown above.
- Launch Windows Explorer (if it has not yet been activated) via the Start button/Run and subsequent entry of "Explorer".
- Go to "C:\winnt\system32\drivers".
- Search for the "AIC78U2.SYS" file.
- Select this file and right-click.
- Select "Properties".
- Go to the "Version" tab.
 - The following driver information is displayed:
 - Version: 3.04 (4.0.1460)
- If the correct driver version is displayed, close all windows except for the minimized installation window.
- Maximize the window to install the imaging system software by selecting the symbol in the bottom menu bar.

NOTE

This concludes the "Update the SCSI Driver" chapter.

NOTE

The CSE may not perform any manual operations until the monitor shows the following image.

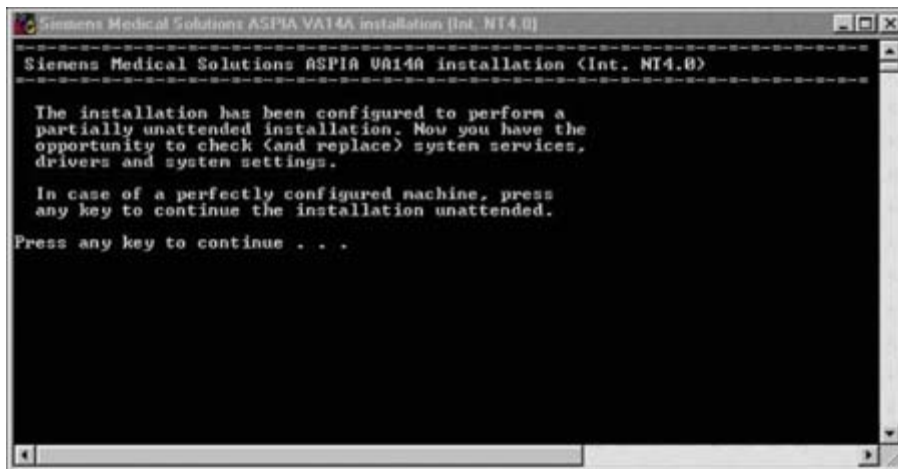


Fig. 15: ASPIA VA14A installation

- Press the space bar.
 - The service pack is installed.
 - The PC restarts.
 - Various information is displayed on screen. All system prompts to confirm something by clicking on "OK", etc. are to be ignored.

NOTE

The CSE may not perform any manual operations until the monitor shows the following image.

The following image is displayed after approx. 15 minutes:

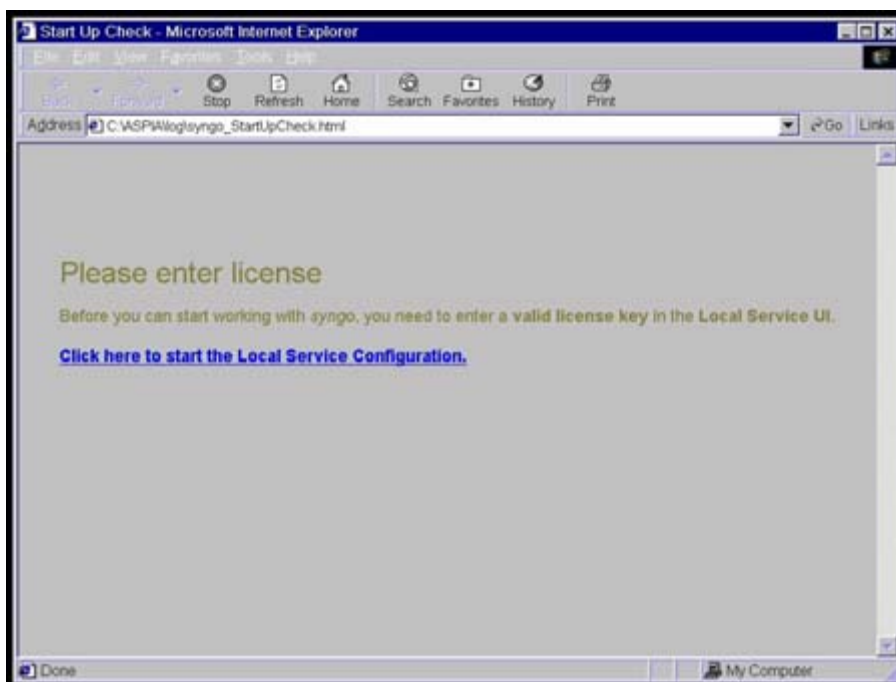


Fig. 16: Local service configuration

- Select "Click here to start the local service configuration".

The following window is displayed:

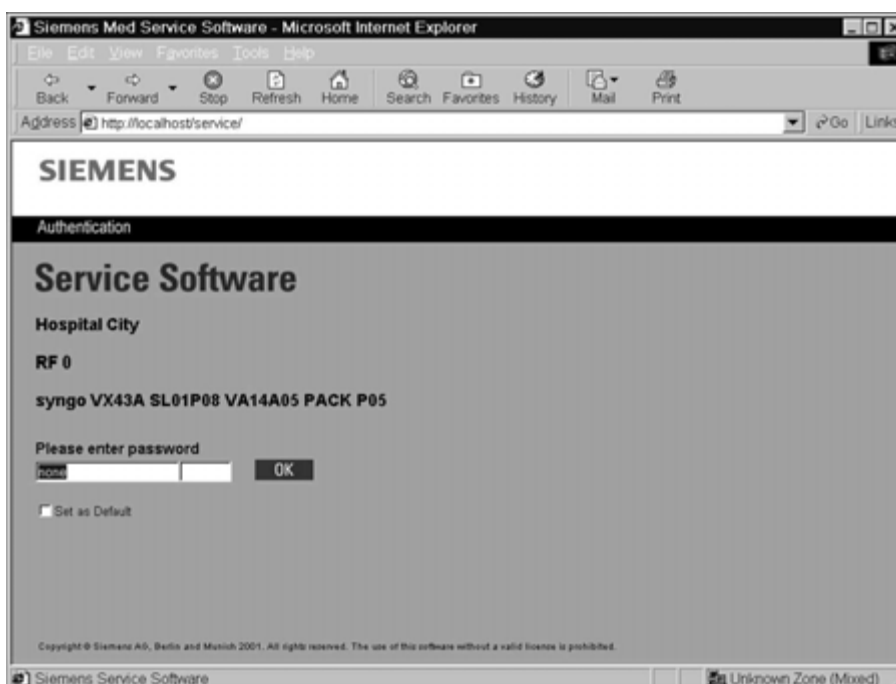


Fig. 17: Authentication

- Use the displayed syngo screen to enter the service key indicated in the table on (Tab. 1 / p. 10).
 - This is also available in the logbook
- Select "Set as default".

- Confirm by clicking on "OK".

The following menu is displayed:

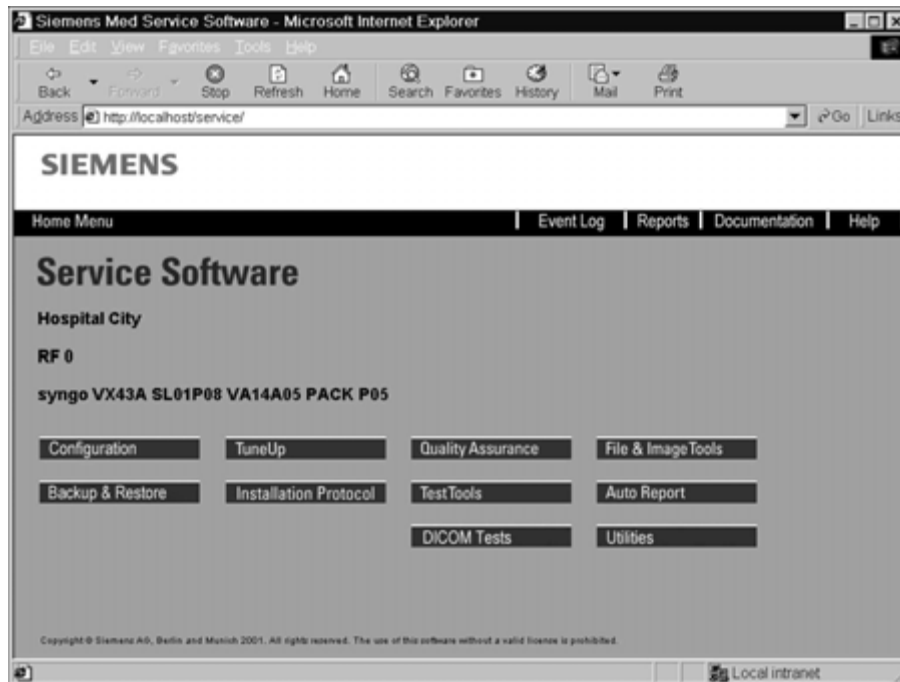


Fig. 18: Home menu

NOTE

This concludes the "Licensing" chapter.

NOTE

If a backup is available, continue with the chapter [\(Restore / p. 113\)](#).

If no backup is available, continue with the chapter [\(Basic Configuration/license import / p. 24\)](#).

No backup available

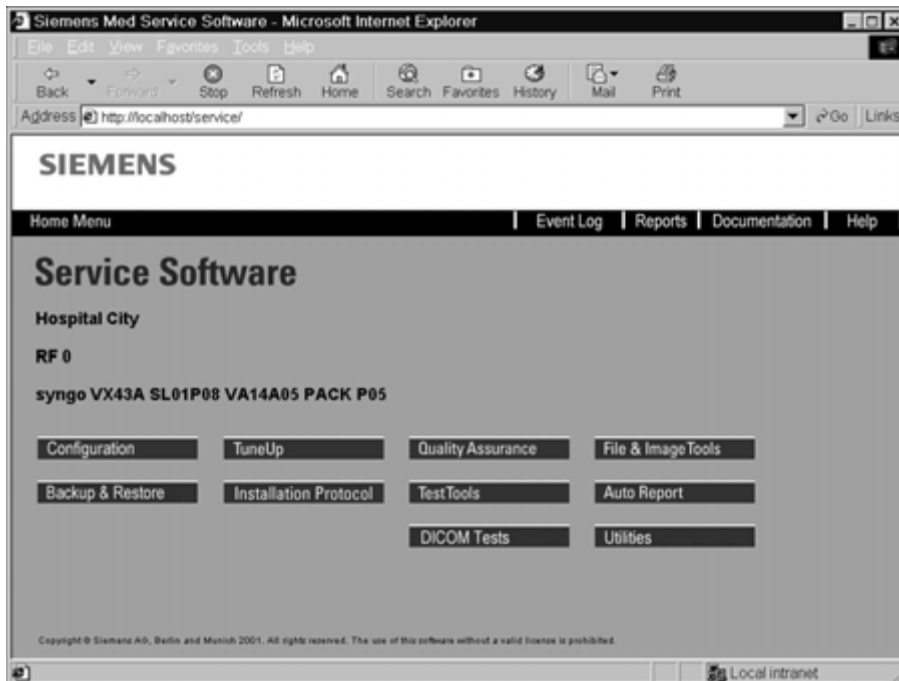


Fig. 19: Home menu

- Select "Configuration".

The "Configuration" menu is displayed.

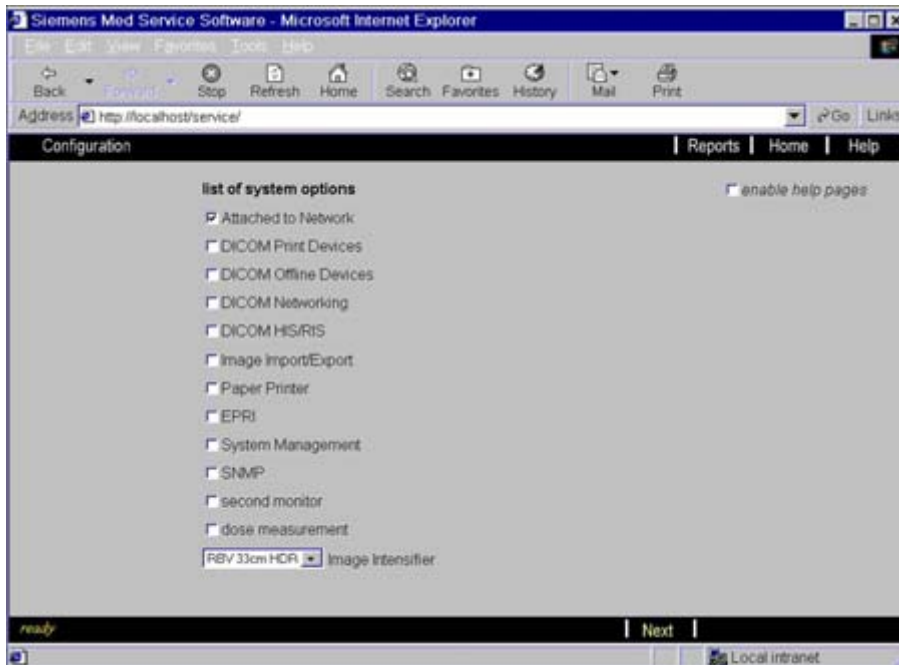


Fig. 20: Configuration

- Select "Next".
 - The following message is displayed:
"Initial setup"
 Not all configuration items were completed after installation."

- Select "Next".

Fig. 21: Configuration_serial number

Serial no.

- Enter the serial number of the UROSKOP Access system.
 - The next page shows the location of the label with the serial number (1/Fig. 22 / p. 26). The serial number is used for the DICOM unique identifier within the image header attribute as well for the file names of the images.

NOTICE

The serial number is a mandatory field and may not contain characters other than the numbers 0 through 9.

⇒ It never begins with 0.

NOTE

The label with the serial number at the base of the system must indicate model no. 5756122 or 5756130.

The serial number is located at the base of the system (Fig. 22 / p. 26).

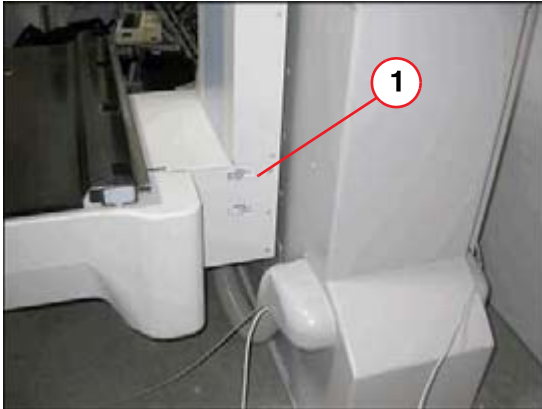


Fig. 22: Base of the system

Pos. 1 Serial number

- Select "Save".
- Select ">".

Time zone settings



Fig. 23: Configuration_Time zone

- Select the time zone under "Time zone".
- Check the "Date and time" and change them if necessary.
- Select "Save".
 - A "Warning" window is displayed.
- Select "OK"
- Select "Next".
 - The "TCP/IP LAN" window is displayed under Local Host.
- Select "Next".
 - The "Modem RAS" window is displayed under Local Host.
- Select "Next".
 - The "Users" window is displayed under Local Host.
- Select "Next".
 - The "Monitor type" window is displayed under Local Host.
- Select "Next".
 - The "Mail" window is displayed under Service.
- Select ">".
- Select "Next".
 - The "FTP" window is displayed under Service.
- Select ">".
- Select "Next".
 - The "Auto transfer" window is displayed under Service.

- Select "Next".
 - The "Event log" window is displayed under Service.
- Select "Next".
 - The following is displayed: "The license file does not contain any features."
- Select "OK"

The "Licensing" mask is displayed:



Fig. 24: Configuration_Licensing

- Select "Browse".
 - "Choose file" is displayed.
- Insert the license disk.
- Select drive "a:\\" under "Choose file".
- Select the license file.
 - The license file has the extension "*.dat".
- Select "Open".
 - Under "Import license file from local drive:" the path is displayed.
- Select "Import license file".
 - The message "Are you sure you want to overwrite the existing license file?" is displayed.
- Confirm by clicking on "OK".
 - The message "License data successfully saved" is displayed.
- Remove the disk.
- Select "Next".

- Select "Home".
 - The message "A reboot is necessary to make change valid! Press OK to start shut-down or select Cancel" is displayed
- Select "OK"
 - The monitor is briefly blank.
 - The PC restarts.
 - syngo launches.
 - The acquisition task card is displayed.
 - This process can take a few minutes.
- Completely switch off UROSKOP Access at the control panel.
 - Wait until the UROSKOP Access system has completely shut down.
- Switch the UROSKOP Access system back on.

Manual settings

Country-specific keyboard layout

You can choose English and German for the keyboard layout.

- Select "Configuration" in the UI under "Options".

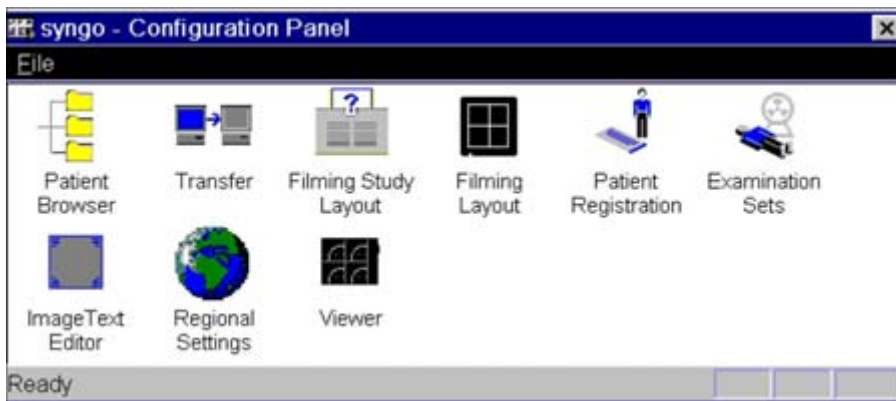


Fig. 25: syngo configuration panel

- Double-click on "Regional settings".



Fig. 26: Regional setting properties

- Select the desired language.
- Select "Apply".

Language for the user interface

- Select "Input locales".

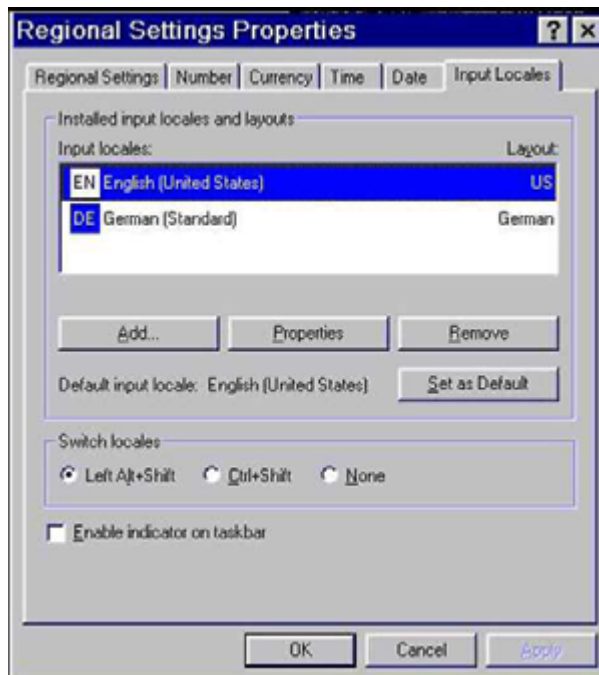


Fig. 27: Regional setting properties_Input locales

- Double-click the desired layout under "Input locales."



Fig. 28: Input locale properties

- Select the layout for your keyboard under "Keyboard layout".
- Select "OK".
- Select "Set as default".
- Select "Apply".
- Select "OK".
- Confirm the "Regional settings" window by clicking on "OK".
 - This saves the settings, and the application is restarted.

Monitor type

- Select "Local service" under Options.

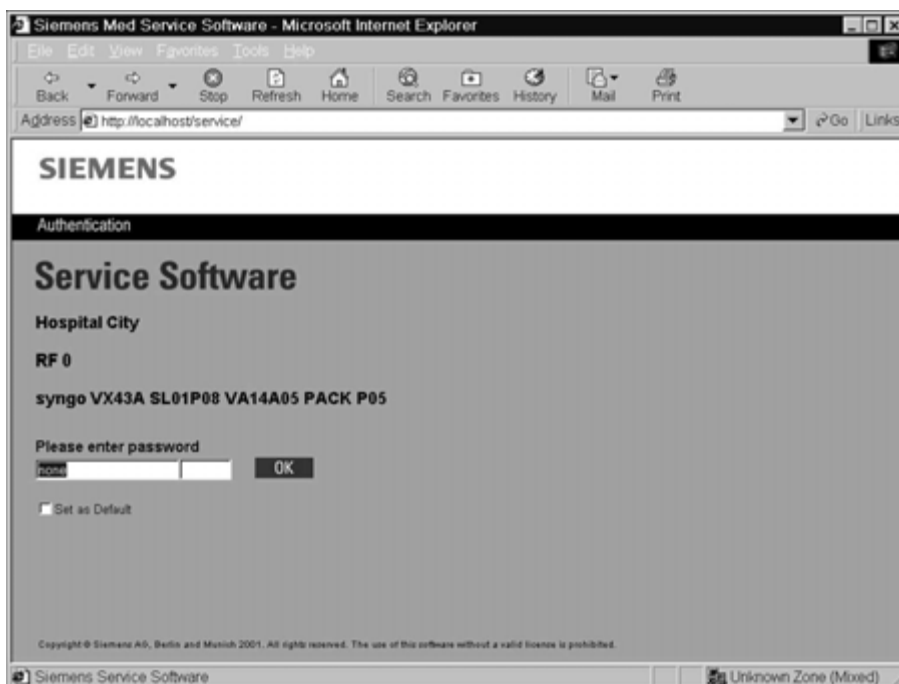


Fig. 29: Authentication

- Enter the service key under "Please enter password".
- Confirm by clicking on "OK".



Fig. 30: Home menu

- Select "Configuration".



Fig. 31: Configuration

- Select "Next" in the footer bar.
- Select "Monitor type" under Local Host.



Fig. 32: Configuration_Monitor type settings

For systems with only color monitors:

- Select "Color".
- Select "Siemens (pseudo color)".
- Select "Save".

- Confirm the "Monitor type data successfully saved" window by clicking on "OK".
- Select "Home" in the header bar.

For systems with at least one black-and-white monitor:

- Select "Grayscale".
- Select "**Siemens (Simomed II)**".
- Select "Save".
- Select "Next".
- Select "Home" in the header bar.

NOTE

This concludes the "Basic Configuration/License Import" chapter.

General information - syngo

NOTE

Existing network:

To ensure a smooth initial start-up, the project manager must first determine the configuration data in accordance with the "Network checklist". See the chapter [\(Siemens Remote Service / p. 133\)](#).

If the network checklist has not been completed, the data must be obtained from the customer's network administrator and entered in the table.

NOTE

During initial installation, go through the screens in the sequence prescribed.

For subsequent additions, the configuration steps that already have entries can be skipped. However, these screens should be checked nonetheless and adapted to the on-site conditions if necessary.

The configuration steps should be performed in the sequence shown in the structure on the left side of the screens. Select all configuration steps.

All data should be entered as described in the configuration table. In particular, upper and lower case conventions must be observed!

Additional online help can be obtained by pressing the "Help" button in the menu header.

NOTE

Always use the "Home" button to exit configuration. This generates the necessary configuration report.

NOTE

In the case of preinstalled software, some of the following screens are already filled with data. The automatic, chronological configuration routine does not work in this case as it does in an initial installation. The corresponding screens must be selected manually.

The Service home menu is displayed.

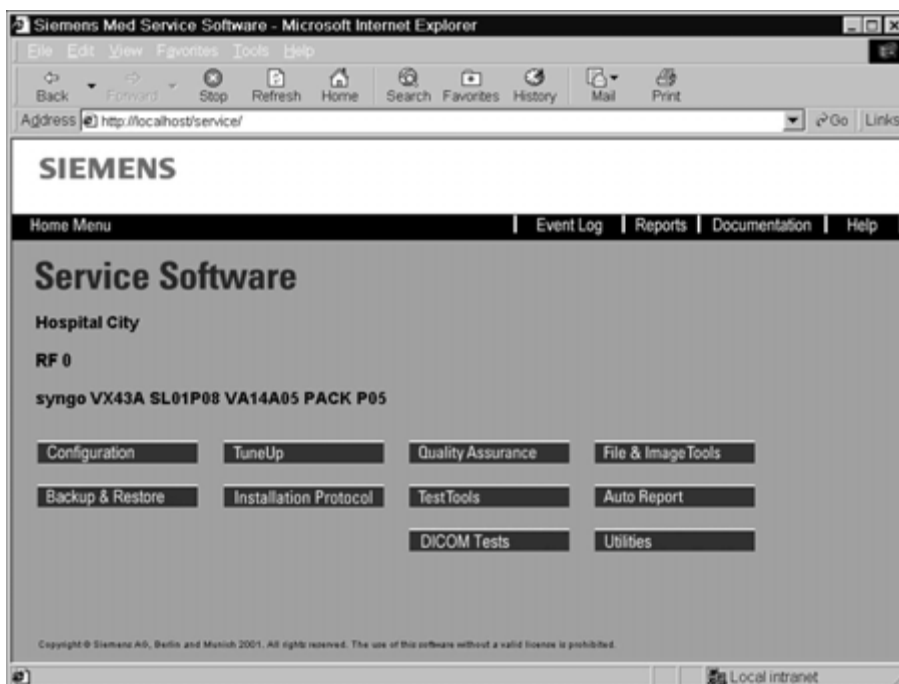


Fig. 33: Home menu

- Select "Configuration".



Fig. 34: Configuration_System options

The following system options can be selected:

Attached to Network	TCP/IP LAN (local network) for local system
DICOM Print Devices	DICOM Basic Print service for laser cameras
DICOM Offline Devices	DICOM Media Storage on offline media such as MOD and CD-R

DICOM Networking	DICOM Storage and Query/Retrieve via remote network nodes
DICOM HIS/RIS	DICOM Basic Worklist for radiology (hospital) info. systems
Image Import/Export	Import/export of DICOM images from/to the file system
Paper Printer	Paper formats for postscript printers
EPRI	Electronic Patient Record Interface
System Management	System Management Agent
SNMP	Simple Network Management Protocol for Network Topology
Second Monitor	To be selected if a second monitor is present
Dose Measurement	Dose measurement
Image intensifier	Installed image intensifier size
Enable Help Pages	To display help pages between the configuration dialogs

- Select the existing system options.
 - Do not select EPRI, System Management, and SNMP for UROSKOP Access.

NOTE

"Attached to network" must always be selected in the "List of system options".

- Select "Next".
- The following is displayed:



Fig. 35: Configuration_Initial setup

- Select "Next".

Local Host

Site info.

Step 1- site-specific data

"Site info." allows you to enter general system and site-specific information for identification of the unit.

- Select "Site info."

Fig. 36: Configuration_serial number

Software installation

This date is set automatically during software installation and cannot be changed.

Handed over

- Enter the date and time when the system was handed over to the customer.
 - This date has no effect on the software. Like other data in this menu, it serves only as information for the service engineer.

System

Serial no.

- Enter the serial number of the UROSKOP Access system (if you haven't already done so).
 - The serial number is used for the DICOM unique identifier within the image header attribute as well for the file names of the images.

The serial number is located at the base of the system (Fig. 37 / p. 39).

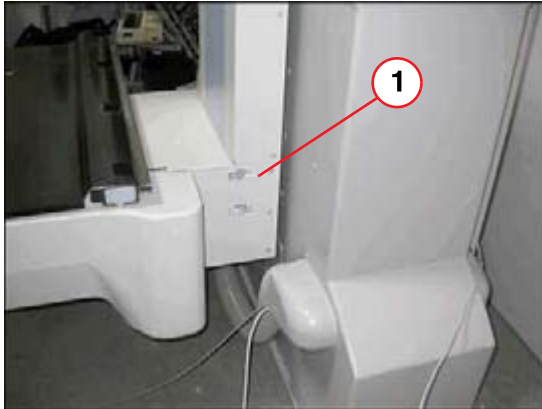


Fig. 37: Base of the system

Pos. 1 Serial number

NOTICE

The serial number is a mandatory field and may not contain characters other than the numbers 0 through 9.

⇒ The serial number must not begin with 0.

NOTE

The label with the serial number at the base of the system must indicate model no. 5756122 or 5756130.

Maintenance unit

- Enter "ut" for the UROSKOP Access system under "Maintenance unit".
 - This code is required for remote analyses.

Department

- Enter the name of the department in which the system is located.

Service

The two entries under "Service" are displayed in the customer user interface under "Options - Maintenance". The customer sees the service phone number and can identify his product by the site identification number.

Site identification number

- Enter the site identification number.
 - The syntax for this number is different for each country and can be found in the Service Management System. It identifies the local system in the Service Center.

Service Center phone

- Enter the telephone number of the responsible Service Center.

Customer and address

Name

- Enter the name of the customer.
 - In certain cases, it is the same as the hospital name (see the adjacent field).

ID

- Enter the ID number of the customer.
 - The syntax for this number is different for each country and can be found in the Service Management System.
- Enter the appropriate data for hospital, street, street no., ZIP code, phone no., city, district, and country.
 - This data may be helpful during a remote service session and will be shown in the report files.
- Select "Save".
- Select ">".

Step 2- time zone settings



Fig. 38: Configuration_Time zone

- Check the values entered in this screen and correct them as necessary.
- Activate "**AutoDaylightTime**".
 - "**AutoDaylightTime**" should only be deactivated upon specific customer request.
- Select "Save".

The following is displayed:



Fig. 39:

- Select "OK".

- Select "Next".

TCP/IP LAN

The "TCP/IP LAN" menu allows you to configure the local networking properties of your system.

NOTE

This system supports only the TCP/IP protocol.

Requirements

When configuring the TCP/IP LAN properties, you must decide how much TCP/IP LAN support your system requires. The project manager is responsible for obtaining the necessary data from the hospital's network administrator or from the Siemens Uptime Service Center.

- Select TCP/IP LAN.

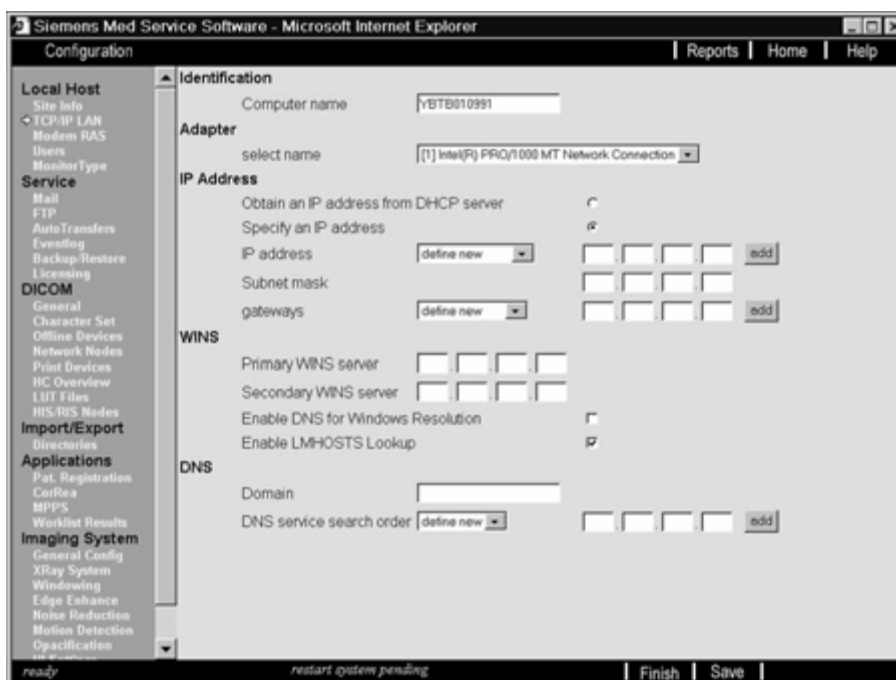


Fig. 40: Local Host_TCP/IP LAN

NOTE

The data regarding computer name, IP address, subnet mask, gateway, and service key was already noted in (Tab. 1 / p. 10).

Identification

Computer name

- Enter the computer name.
 - The name to be entered can be found in the "SPL checklist" or obtained directly from the customer. The computer name (host name, node name) identifies the system on the network. It is used internally (host file) or by the domain name server to map your system to your corresponding Internet address.

NOTE

If a domain name server is used, the computer name should be the same as the name entered at the DNS.

Adapter**Select name**

- Check whether the appropriate network adapter is selected under "Select name" as described below.
 - This pull-down menu contains all network adapters available in your system.

NOTE

"Intel (R) PRO/1000 MT Network Connection" for PC Celsius M410
"Intel (R) PRO/100 VM Network Connection" for PC Celsius 420/444.

NOTE

The settings entered in the menu below refer to the selected adapter.

IP address**Obtain an IP address from DHCP server**

- Do not select "Obtain an IP address from DHCP server".
 - Not used for UROSKOP Access!
DHCP is an acronym for Dynamic Host Configuration Protocol, which allows the dynamic configuration of IP addresses and related information. DHCP provides safe, reliable, and simple TCP/IP network configuration, prevents address conflicts, and helps optimize the use of IP addresses through centralized management of address allocation. As a result, an IP address does not have to be specified.

NOTE

IP address configuration via DHCP has not been definitively tested with this software version.

Specify an IP address**NOTE**

For DICOM transfer (network, HIS/RIS, and printer), it is necessary to enter an IP address for each connected system.

DHCP provides the possibility of assigning a certain IP address to a certain system. Make sure that the DHCP server always uses the same IP address for each connected system and also for the own system.

- Select "Specify an IP address".

IP address

- If the IP address 192.168.1.1 is present, delete it via the "Del" button.

- Enter the Internet Protocol address under "IP address".
 - Enter a unique code for the selected adapter in the four windows separated by dots to identify your system on the network. (IP address, subnet mask, and gateway identify the logical location of your system completely). Each adapter is assigned its own unique address. Duplicate IP addresses on a network can cause a variety of problems.

NOTE

Each network adapter can have up to five IP addresses assigned to it. Multiple addresses can be used in networking environments with multiple domains and subnets sharing the same line.

Subnet mask

- Enter the subnet mask address.
 - Enter a unique code for the subnet mask in the windows separated by four dots. This number is used to mathematically "mask" IP addresses on the network. It is absolutely essential that this entry is correct. If it is entered incorrectly, you will not be able to "see" the other nodes on the network. All systems using the same addressing schemes must use the same subnet mask.

Gateway

- Enter the gateway address.
 - This entry indicates where TCP/IP traffic should be sent when its address indicates that it needs to be forwarded to another logical network. You must provide a gateway address for every network adapter in your system. This address points to a router - either another computer or a piece of dedicated hardware - that forwards data packets to hosts that are not on the currently selected adapter's subnet.

NOTE

You can enter other gateway addresses in addition to the default address. You may need to do this if your system is connected to multiple network segments.

NOTE

If your system is connected to the relevant RDIAG server via an ISDN router, refer to the "Siemens Remote Service" chapter.

TCP/IP naming services

TCP/IP requires a mapping table between the IP address and the host name (computer name, node name). This mapping can be performed locally on the system or on centralized name servers. The local mapping table is the "Hosts" file or, for WINS, the "lmhosts" file. Centralized name servers are DNS or WINS.

- When both name servers are available and configured, the local system will look for the IP address for a given computer name in the following order:
 - NetBIOS cache on the local system (see command nbtstat -c)
 - WINS (Windows Internet Naming Service)
 - DNS (Domain Name Server)
 - lmhosts (file with local hosts administered by WINS)
 - Hosts (filled in by the Siemens configuration tool)
 - DNS (even if DNS is not configured, the system will look for a DNS when the mapping tables listed above do not find any IP addresses for the computer name)

WINS

(Windows Internet Naming Service)

Not currently used with UROSKOP Access!

Primary WINS server

- Do not enter anything under "Primary WINS server".
 - This entry applies if you use TCP/IP to connect to other Microsoft Networking systems. To use the TCP/IP transport protocol with NT's built-in networking, NetBIOS machine names (computer names) must be mapped to the corresponding IP addresses for each machine. This mapping can be managed via an external database (called LMHOSTS), DNS, a Windows Internet Naming Service Server (WINS), or a combination of all three. WINS is the easiest method and the only method that supports dynamic IP address assignment through DHCP. You can specify a primary and secondary WINS server to be used by all adapters.

Secondary WINS server

- Do not enter anything under "Secondary WINS server".

Enable DNS for Windows resolution

- Do not select "Enable DNS for Windows resolution".
 - Windows NT 4.0 allows you to assign NetBIOS names to IP addresses using a text database called "lmhosts", DNS, WINS servers, or a combination of the three. If you want to use DNS for this purpose, enable this checkbox. Unlike for WINS, it is necessary for the network administrator to enter the node name and the appropriate IP address into the domain name server.

Enable LMHOSTS lookup

- Do not select "Enable LMHOSTS lookup".
 - If you need to use the LMHOSTS file for name-to-address mapping, enable this checkbox. The LMHOSTS file is administered by the WINS.

DNS (Domain Name Server)

Not currently used with UROSKOP Access!

Domain

- Do not enter anything under "Domain".
 - If your network supports DNS for name resolution, enter the domain name here. Note that this is not necessarily the same as your Windows NT domain name.

DNS service search order

- Do not enter anything under "DNS service search order".
 - If your network supports DNS, enter the IP address of the available domain name server. To enter more than one DNS, click on the "Add" button. The local system will invoke the DNS in the order entered in this field.
- Select "Save".
 - Confirm the two windows that are now displayed by clicking on "OK".

NOTE

"Modem RAS" is not used under Local Host.

Users

- Select "Users".

The "Users" menu lets you set the account name and password for the local system application and the password for the local PPP account.



Fig. 41: Configuration_Local Host_Users

Account for UI

- Enter "meduser" under Account for UI if no designation is provided.
 - The default account is "meduser". Entering this account and the appropriate password starts the application. Autologin will skip the request for this account.

Default password

- Select "Default password".

Enable autologin

- Select "Enable autologin".
 - "Autologin" means that the application is called up automatically during system start-up. To enter the system as "Administrator," you must disable "Autologin" and restart the system. In this case, you will be asked for an account.

Account for PPP

The PPP (Point-to-Point Protocol) account is necessary for remote login to the system via RAS (modem line). PPP is not used for router connections (Ethernet line).

Default password

- Select "Default password".
- Select "Save".

The following message is displayed:



Fig. 42: Local_Host_User_Info

- Confirm by clicking on "OK".

Monitor type

The settings for monitor type have already been listed and performed in a previous chapter.

They are described here again for the sake of completion and for review purposes.

- Select "Monitor type".

The following window is displayed:



Fig. 43: Configuration_Monitor type settings

For systems with only color monitors:

- Select "Color".
- Select "Siemens (pseudo color)".

For systems with at least one black-and-white monitor:

- Select "Grayscale".
- Select "Siemens (Simomed II)".

NOTE

The changes become effective only after a reboot is performed.

Service

Under "Service" you can configure different functions for remote diagnostics (Auto Report, File&Image Tools) and other functions for the service software (Event Log, Backup&Restore).

NOTE

If the UROSKOP Access system is not connected to remote, the following steps must be performed.

If the UROSKOP Access system is connected to remote, perform the steps described in the "Siemens Remote Service" chapter, and then continue with "Event log" in the "syngo Configuration" chapter.

Mail

NOTE

Skip this configuration step if use of the mail function is not planned.

This menu item makes it possible to define the mail target for the "Auto Report" function and for the Service Center in the customer user interface under Option/Remote Service.

A target is comprised of a mail server and a mail account on this server and can be linked via LAN (e.g., a router).

The procedure is performed in two steps. The host name and the IP address for the mail targets must first be defined. The e-mail address at this server must then be entered. For the RDIAG server, you can enter an e-mail address known at the mail server which is connected to the RDIAG Server.

- Select "Mail" under Service.

Step 1- TCP/IP settings for mail targets



Fig. 44: Configuration_Service_Mail_1

NOTE

"LAN" must be selected when the UROSKOP Access system is connected to a network.

Host properties

NOTE

To be able to use the "Find" and "Test" buttons in this instance, the UROSKOP Access system must be reconnected to the network.

Host name

- Enter the host name of the network node.
- Select the "Find" button to check whether the host name is known at the WINS or Domain Name Server (DNS). If this is the case, the IP address is entered in the TCP/IP address field.

TCP/IP address

- If no IP address was entered automatically, it must be entered manually.
- Select "Test".
 - A ping command is performed for the corresponding IP address.

If the ping is successful, the following window is displayed:



Fig. 45: *Ping_alive*

Pos. 1 Display of corresponding IP address

If the ping is not successful, the following window is displayed:

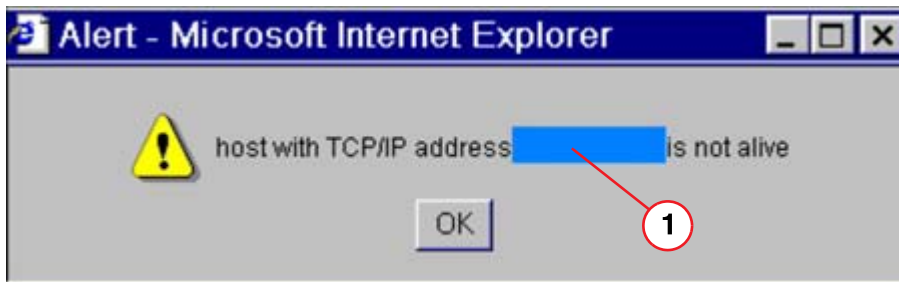


Fig. 46: *Ping_not alive*

Pos. 1 Display of corresponding IP address

- **A TCP/IP ping will fail for the following reasons:**

- The remote host is turned off or not in the same network (or subnet), or the gateway is not configured.
- The TCP/IP address is configured incorrectly.
- A network component (router, switch, bridge, etc.) denies access to the other network.
- Select "Save".
- Select ">".

Step 2- mail target settings



Fig. 47: Configuration_Service_Mail_2

- Select "Next".

FTP

NOTE

Skip this configuration step if use of the Auto Report and File&Image Tool functions is not planned.

This menu item makes it possible to configure the file transfer target (FTP) for the Auto Report and the File&Image Tool functions.

A target is comprised of an FTP server and an FTP account on this server and can be linked via LAN (e.g., a router).

- Select "FTP" under Service.

Step 1- FTP target settings

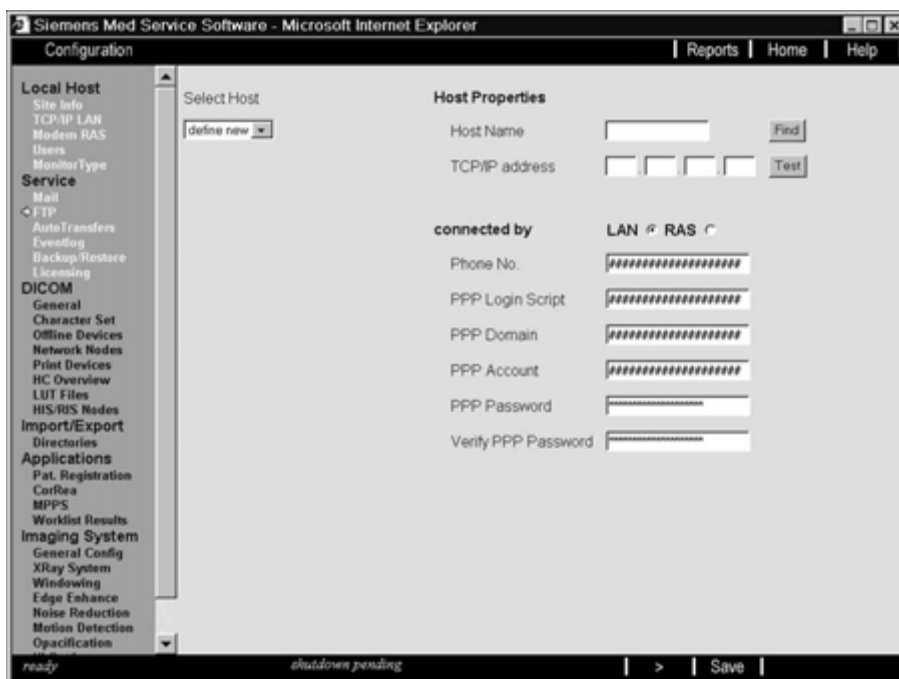


Fig. 48: Configuration_Service_FTP_1

- Select ">".

Step 2- FTP target settings



Fig. 49: Configuration_Service_FTP_2

- Select "Next".

Auto transfer

- Select "Auto transfers".



Fig. 50: Configuration_Service_Auto Transfers

NOTE

"Activate automatic transfer" must not be selected.

- Select "Go".
- Select "Next".

Event log

The "Event log" function allows you to customize the contents of the event log of your service software.

NOTE

The "Event log" configuration step is only to be performed after [\(Siemens Remote Service / p. 133\)](#) has been completed.

- Select "Event log" under Service.



Fig. 51: Configuration_Service_Event log

Log only service messages

- Check that "Log only service messages" is activated.

Display service messages

- Check that "Display service messages" is activated.

Display sequence number

- Check that "Display sequence number" is activated.
- Select "Next".

NOTE

This concludes the "Event log" section. Proceed with [\(Siemens Remote Service / p. 133\)](#).

Backup/Restore

- Select "Backup/Restore" under "Service".

Backup/Restore allows you to specify the data to be saved and restored when executing the Backup & Restore function of your service software. The time and destination for backup and restore will not be set in the configuration platform, but rather at Backup/Restore.

Specify the packages, groups, directories, and files to be included in the Backup&Restore procedure and the batch procedures to be executed when performing the corresponding action.

The Restore procedure permits the selection of all packages and groups or of only certain groups or packages.

NOTE

Auto Backup is not supported by this software version.

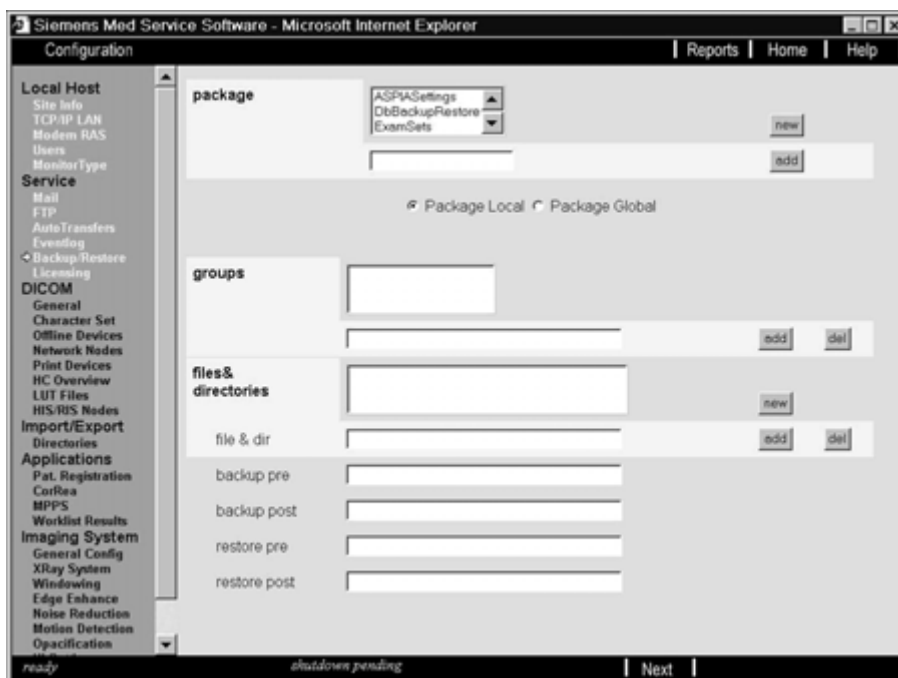


Fig. 52: Service_Backup/Restore

- Select "DbBackupRestore" under "Package" and click on "Delete" in the footer bar of the screen (1/Fig. 53 / p. 55).
 - Confirm the pop-up window by clicking on "OK".



Fig. 53: Service_Backup/Restore_Package

Pos. 1 Button

NOTE

Note that the text entry "_" is not permitted!

- Enter "XBurner package" as described in the picture below and accept this entry by clicking on the "Add" button (1/Fig. 54 / p. 56).



Fig. 54: Service_Backup/Restore_XBurner package

Pos. 1 Button

- Enter "Service files" (1/Fig. 55 / p. 57) under "Groups" and accept this entry by clicking on the "Add" button (2/Fig. 55 / p. 57).

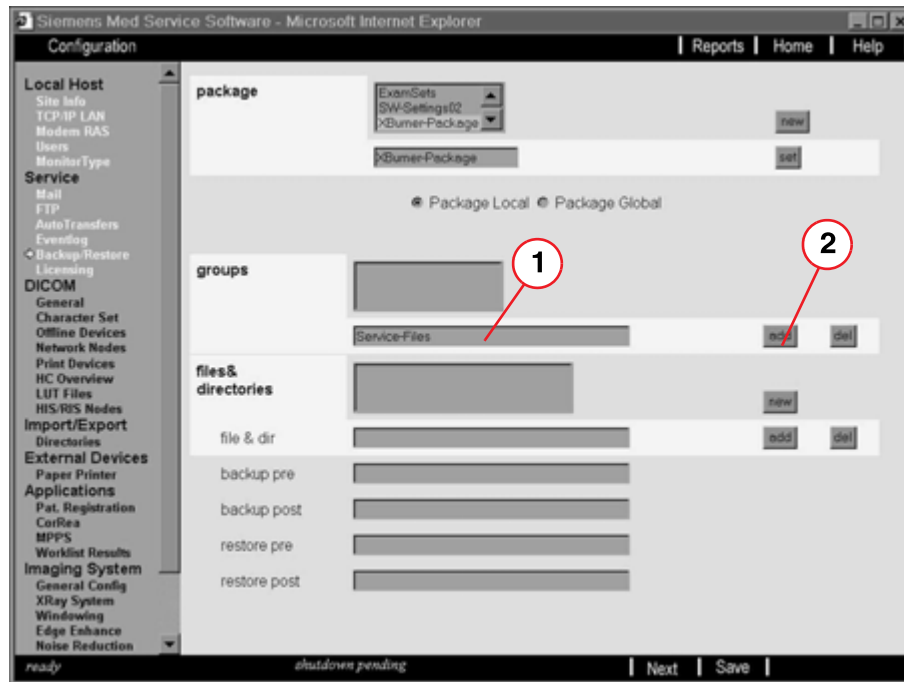


Fig. 55: Configuration_Service_Backup/Restore_Service files

Pos. 1 Service files

Pos. 2 Add button

- Enter "C:\Aspia\log" under "file & dir" and accept this entry by clicking on the "Add" button.
- Enter "C:\Aspia\service\html\gfx" under "file & dir" and accept this entry by clicking on the "Add" button.
- Enter "C:\Aspia\service\html\report" under "file & dir" and accept this entry by clicking on the "Add" button.
- Enter "C:\Aspia\service\extract" under "file & dir" and accept this entry by clicking on the "Add" button (1/ Fig. 118 / p. 126).

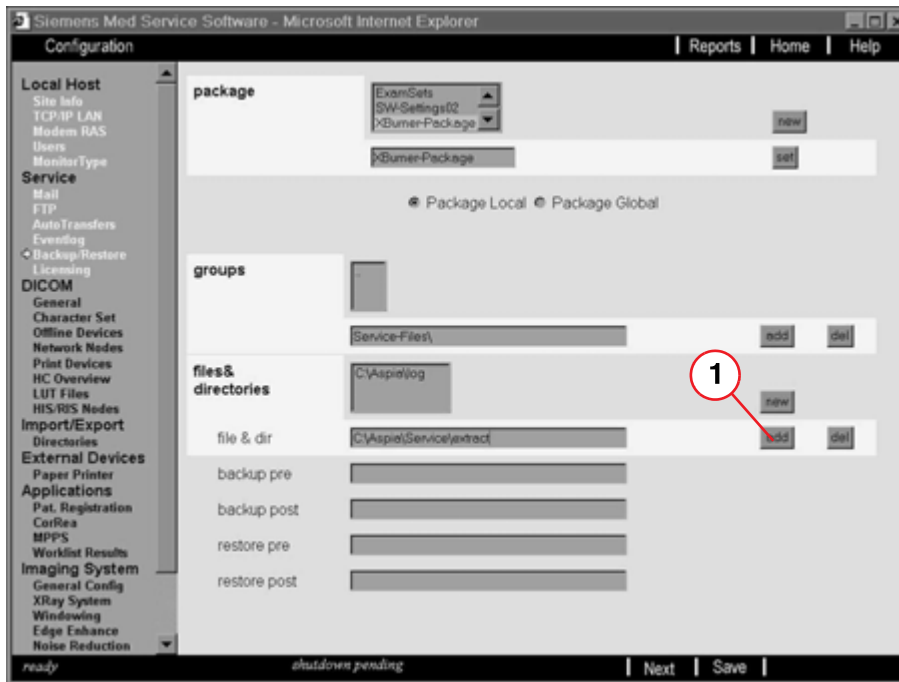


Fig. 56: Configuration_Service_Backup/Restore_file & dir

Pos. 1 Add button

- Select "Save".
- **Package local/package global**
 - This option allows you to call up an additional menu in which the properties for the package selected above can be specified.

NOTE

Changes are not allowed here.

Package

A name for the new backup package can be entered here.

Groups

Define a new group for the package selected above by entering a name in the text field and clicking on "Add". Alternatively, you can select an existing group from the list field.

Files&directories

File(s) and directory(ies) must be entered for the selected group of the selected package.

File & dir

Enter a name in the text field and click on "Add" to designate a new file or a new directory for backup.

Delete a file or directory by selecting it from the list field and clicking the "Del" button.

Backup pre

Use "Add" or "Del" to add or delete a procedure command to be performed prior to backup of the appropriate file.

Backup post

Use "Add" or "Del" to add or delete a procedure command to be performed after backup of the appropriate file.

Restore pre

Use "Add" or "Del" to add or delete a procedure command to be performed prior to restore of the appropriate file.

Restore post

Use "Add" or "Del" to add or delete a procedure command to be performed after restore of the appropriate file.

Global package

The following description pertains to the "Global package" mask.

Command before backup package

A procedure command to be performed before backup can be entered here.

Alert before backup package

A text to be displayed in a window before backup can be entered here.

Command after backup package

A procedure command to be performed after backup can be entered here.

Alert after backup package

A text to be displayed in a window after backup can be entered here.

Command before restore package

A procedure command to be performed before restore can be entered here.

Alert before restore package

A text to be displayed in a window before restore can be entered here.

Command after restore package

A procedure command to be performed after restore can be entered here.

Alert after restore package

A text to be displayed in a window after restore can be entered here.

Count archives

The number of backups to be saved can be entered here. If 3 is entered, the last 3 back-ups will be stored and the fourth will be deleted.

Licensing

Several applications are protected by a license key. This "Licensing" function allows you to display and modify existing application licenses or to add new application licenses to the system.

NOTE

All licenses can be ordered from the UPTIME Service Center CS HSC 1 (+49 9191-188080).

There are two ways to import license files - one for local access and one for remote access.

In the case of remote access to the service UI, you will only see the content of the incoming directory. The license file needs to be copied into this directory, e.g., via the RDIAG server.

In the case of local access to the service UI, you will be able to navigate through the local file system via a browser button. In this case, you can copy the license file, e.g., from a floppy disk.

NOTE

The license file is checked during import. The original license file will still be available under "Previously loaded license file" if accessed remotely. If the new file is not imported properly, you can reimport the previous license file. Be aware that the previous file will be deleted as soon as you exit the license dialog.

- The licenses were already imported during the initial installation (see the "Installation" chapter). You can proceed to the next configuration item, "DICOM".

NOTE

If new licenses are to be loaded, select "Service/licensing" under Configuration.



Fig. 57: Configuration_Service_Licensing

If "Licensing" is selected remotely, the following screen is displayed:

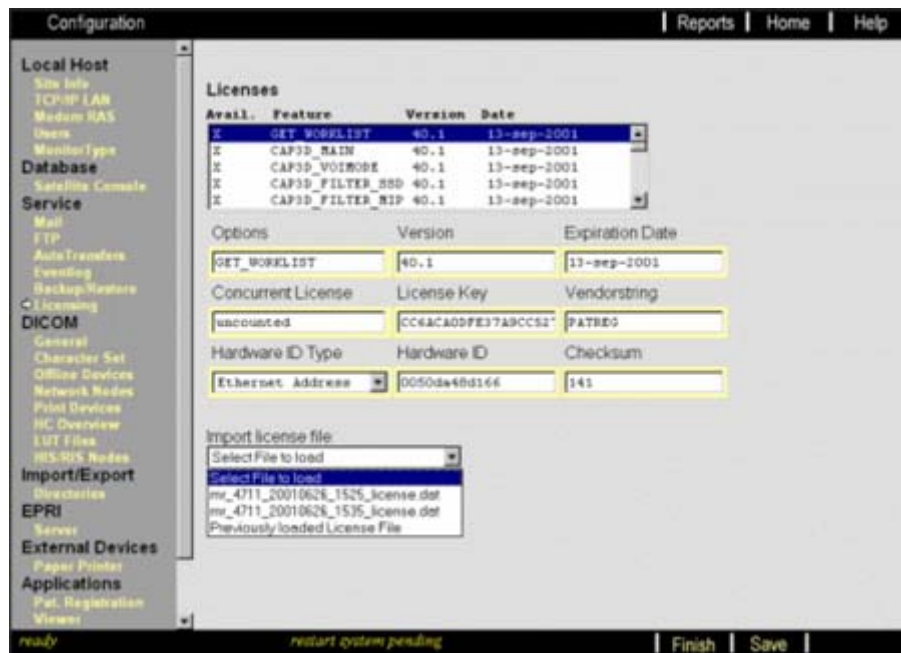


Fig. 58: Configuration_Service_Licensing_Remote

Licenses

A list of all possible licenses is displayed. As soon as a license is entered, it is marked by an (X) as available.

Option

This is the name of the application that is protected by a license key.

Version

This is the license version.

Expiration date

Shows the date when the application license will expire. Unlimited licenses are dated 16-dec-2300.

Concurrent license

This indicates how many users or systems may use the license simultaneously. This function is not yet supported.

License key

The license key consists of 20 characters and must be entered without blanks.

Vendor string

The vendor string is required for encoding the license. It is generated by the engineering department for each application.

Hardware ID type

A dongle, Ethernet address, or vendor-defined hardware ID is selected in this field to identify the system. The appropriate type depends on the product (decided by marketing).

Hardware ID

The hardware ID is set according to the selected hardware ID type.

Checksum

The entire file entry for one application can be checked with this checksum.

Installation of a remote software license

- Transfer the license file to the system or have the floppy with the new license file inserted at the system.
- Select "Import license file".
- Select the license file.
- Select "Save".
- Select "Home".
 - The message "A reboot is necessary to make change valid! Press OK to start shut-down or select Cancel" is displayed.
- Select "Cancel".
- Select "Home".
- Select "Utilities".
- Select "System" under Source.
- Select "Shut down system".
- Select "Go".

DICOM

DICOM allows you to specify the parameters for the DICOM communication interfaces of your system and of the remote systems.

DICOM-related information should be listed in the "SPL checklist".

General

The following steps define the application entity titles of the local system and general timeout settings for all DICOM processes.

step 1 - general - local application entity titles

The application entity title of the local system is defined in this section. Since three different Windows NT servers (processes) are running, three AETs are also available by default.

NOTE

The default AET names include the host name. Changing the host-name automatically changes the AETs, which affects all previously configured DICOM nodes.

Definition of the application entity title

According to part 8 of the DICOM standard, the AET identifies a UNIQUE DICOM service or application on a specific system in the NETWORK. The name consists of characters excluding the control characters LF, FF, CR, and ESC. The AET is limited to a length of 16 bytes.

The same AET can be used for different DICOM services, e.g., Storage, Basic Print, Modality Worklist, etc. However, you cannot use the same AET twice for the same DICOM service.

Some configuration tools for Siemens products allow the same AET to be entered twice for the same service. In this case, the Merge toolkit will always select the destination of the first AET.

All Siemens products that support both DICOM and the PACSnet protocol use the PLA prefix (first 10 characters of the PACSnet logical address) and a 4-character suffix (e.g., 049SA1DC01DRSP).

- Select "General" under DICOM.
- Select "Next".



Fig. 59: Configuration_DICOM_General

HIS/RIS

- Enter the AET for HIS/RIS here.
 - This server is responsible for the DICOM Modality Worklist services. This AET usually needs to be known at the RIS server as well as for authentication purposes. Be aware that changing the local host name may also change the AET.

Study transfer

- Enter the AET for study transfer here.
 - This server is responsible for the following DICOM services: Storage and Query/Retrieve. This AET usually needs to be known at the remote nodes as well as for authentication purposes. Be aware that changing the local host name may also change the AET.

Print

- Enter the AET for Print here.
 - This server is responsible for the Basic Print service. This AET usually needs to be known at the camera as well as for authentication purposes. Be aware that changing the local host name may also change the AET.

Step 2- general DICOM settings

- Click on ">".

NOTE

Do not make any changes for UROSKOP Access on this page!

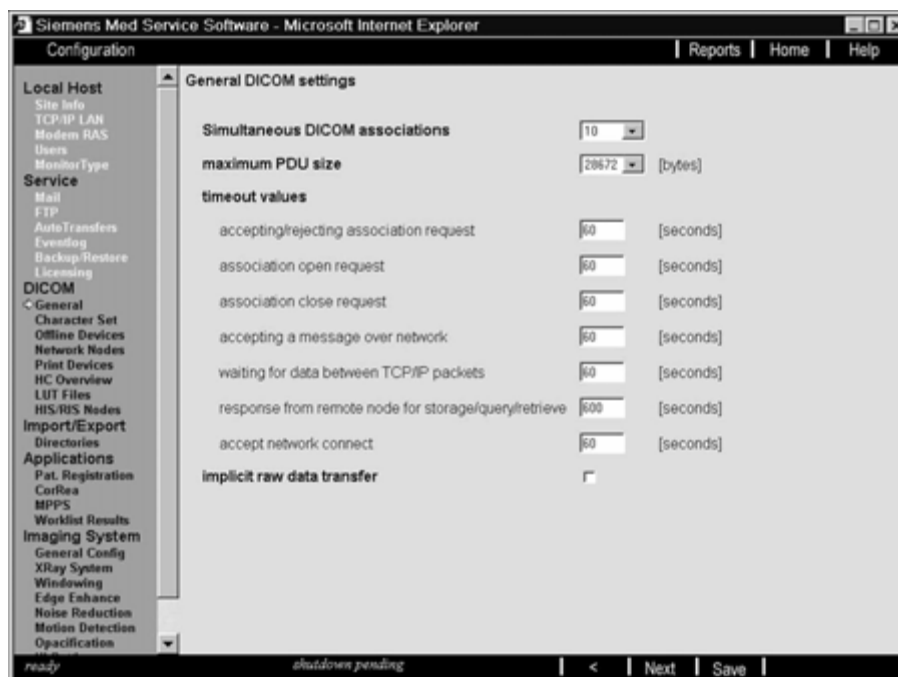


Fig. 60: Configuration_DICOM_General settings

Simultaneous DICOM associations

Set the number of DICOM associations to be handled simultaneously. Reduce the number in the event of performance problems.

Maximum PDU size

The packet data unit size defines how many bytes of data will be collected at the interface between TCP/IP and DICOM. The higher the value, the better the performance. During the association negotiation at the beginning of each DICOM session, the maximum PDU size will be negotiated between the two systems and the lower value will be used.

Timeout values

Accepting/rejecting association request

The ARTIM_TIMEOUT is set in the "mergecom.pro" file and is the timeout for an association request or for a partner to shut down an association.

Association open request

The ASSOC_REPLY_TIMEOUT is set in the "mergecom.pro" file and is the timeout for a reply to an association request.

Association close request

The RELEASE_TIMEOUT is set in the "mergecom.pro" file and is the timeout for a reply to an association request.

Accepting a message over network

The WRITE_TIMEOUT is set in the "mergecom.pro" file and is the timeout for acceptance of a network writing procedure.

Waiting for data between TCP/IP packets

The INACTIVITY_TIMEOUT is active during message transfer (e.g. images) and needs to be increased when performance problems occur in the network (switches, routers).

Response from remote node for storage/query/retrieve

This is the timeout between a C_MOVE request (search - import) and the import (retrieval) of the selected images.

Accept network connect

The CONNECT_TIMEOUT is set in the "mergecom.pro" file and is the timeout for acceptance of a network connection.

Implicit raw data transfer

This allows the transfer of raw data to a remote DICOM destination. Additionally, "raw data" must be selected in the customer user interface during image transfer. The raw data is sent as image header attributes. This results in very large image headers.

- Select "Next".

Character set

This menu is used to define the character set to be used when a new image or object is used on the local system. If images or objects are imported (Storage, Query/Retrieve, Worklist) into the system, the character set of the imported object is used. If Worklist is used, the Worklist character set must be used.

DICOM default character sets



Fig. 61: Configuration_DICOM_Character set

- Select "Allow only one character set".

- Select "ISO_IR 100".
 - The setting needs to be changed only if the keyboard requires this:
ISO IR 6 for ASCII for USA
ISO IR 13 for Japan
- Select "Save".
- Select "Next".

Offline devices

Offline devices allow to make settings for DICOM offline devices (media storage) on the local host.



Fig. 62: Configuration_DICOM_Offline devices

Network nodes

The DICOM nodes for Storage (Send and Receive) and Query/Retrieve are defined here. Note that DICOM printers and the Radiology Information System (RIS) are not configured here.

The entered image transfer or query/retrieve targets can be selected in the "Transfer - Send to..." menu of the viewer or patient browser.

The entered query/retrieve targets can be selected in the "Patient - Search" menu of the viewer or patient browser.

NOTE

DICOM nodes that send only to the local system must also be configured since their IP address will be checked.

These nodes are also listed in the "Transfer - Send to.." menu of the viewer or patient browser as a send destination. To avoid this, simply enter the TCP/IP settings and skip the DICOM settings.

Required data

- The project manager is responsible for obtaining the required data from the customer.
 - Host name and TCP/IP address of the remote host
 - Application Entity Title (AET) and port number of the appropriate DICOM processes on the remote host
 - Transfer syntax (JPEG, Explicit Big Endian, etc.)
 - Type of DICOM service and direction (SCU, SCP)
 - Usually the remote systems also need to be configured. The service engineer from the other company should be on-site for this.
- Select "Home".
 - Confirm the pop-up window by clicking on "OK".

NOTE

Reestablish the network connection in the shutdown phase of the image container.

- Select "Network nodes" under DICOM.

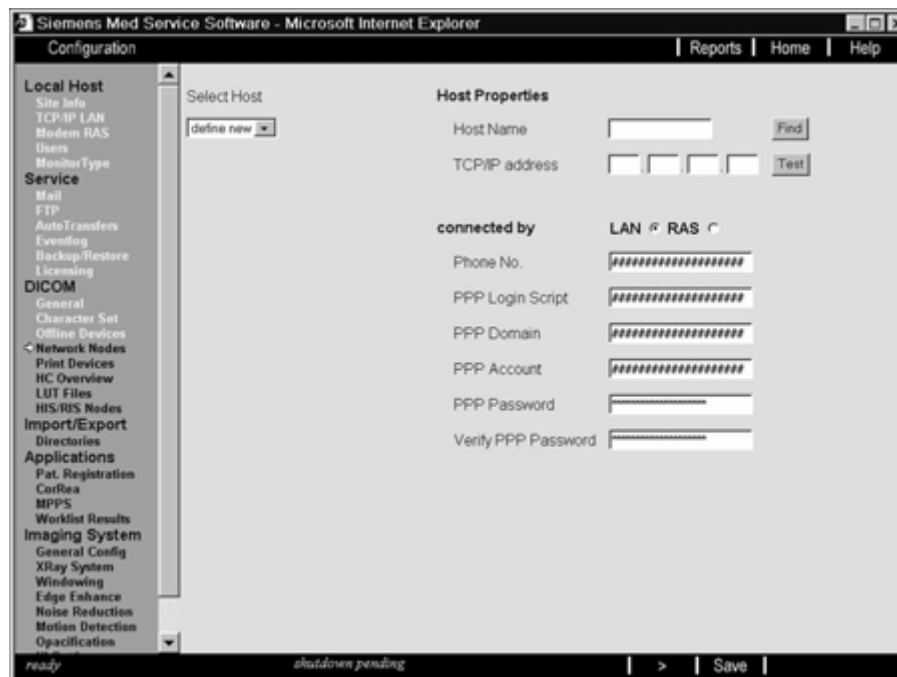


Fig. 63: Configuration_DICOM_Network nodes

- Select "Define new" under "Select host".

Host properties

NOTE

To be able to use the "Find" and "Test" buttons in this instance, the UROSKOP Access system must be reconnected to the network.

Host name

- Enter the host name of the network node.
- Select "Find" to check whether the host name is known at the WINS or Domain Name Server (DNS). If this is the case, the IP address is entered in the TCP/IP address field.

TCP/IP address

- If an IP address was not entered automatically, it must be entered manually.
- Select "Test".
 - A ping command is performed for the corresponding IP address.

If the ping is successful, the following window is displayed:



Fig. 64: *Ping_alive*

Pos. 1 Display of corresponding IP address

If the ping is not successful, the following window is displayed:



Fig. 65: *Ping_not alive*

Pos. 1 Display of corresponding IP address

- **A TCP/IP ping will fail for the following reasons:**

- The remote host is turned off or not in the same network (or subnet), or the gateway is not configured.
- The TCP/IP address is configured incorrectly.
- A network component (router, switch, bridge, etc.) denies access to the other network.

Connected by LAN/RAS

NOTE

"LAN" must be selected when the UROSKOP Access system is connected to a network.

- Select "Save".

- Select ">".

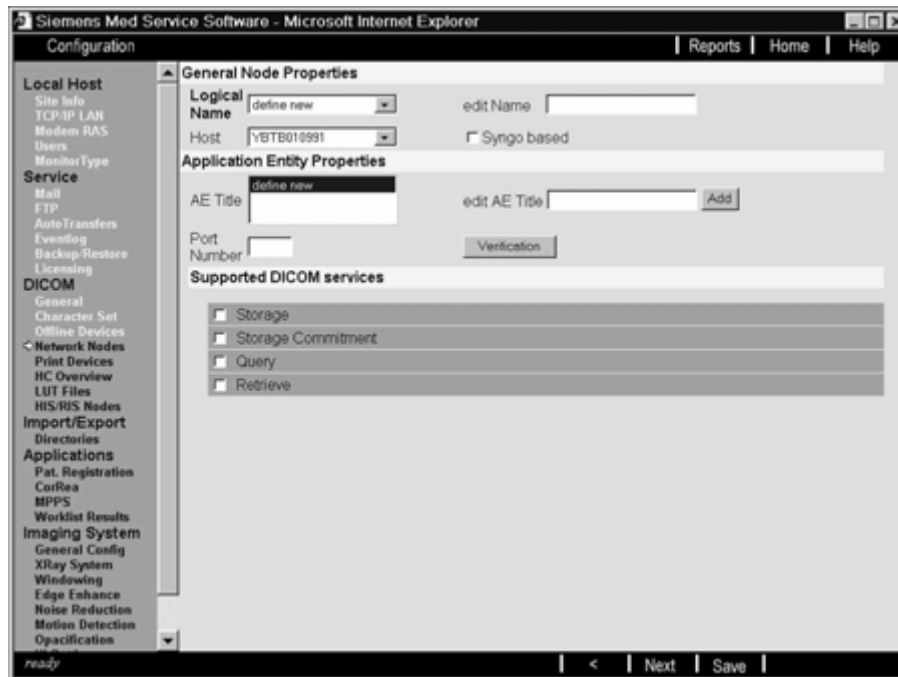


Fig. 66: Configuration_DICOM_Network nodes_LAN/RAS

General node properties

- Select the host name entered under "Host".

Logical name

- Select "Define new".
 - The logical name will be displayed in the customer user interface under "Transfer - Send to..." for Storage and under "Patient - Search" for Query/Retrieve.

Edit name

- Enter a name under "Edit name".
 - The name can be selected freely. The logical name will be displayed in the customer user interface under "Transfer - Send to..." for Storage and under "Patient - Search" for Query/Retrieve.

Syngo-based

- Do not select "syngo-based".
 - This option has no effect on the software. It was used for older syngo versions.

Application entity properties

AE title

- Select "Define new".
 - The already configured AETs are shown in this pull-down menu.

Edit AE title

- Enter the specified name in the "Edit AE title" field.

Port number

- Enter the port number for the DICOM system.
 - The port number is the TCP/IP port where the DICOM process (defined by the AET) at the DICOM device is "listening".

Verification

- Do not select the "Verification" button.
 - DICOM Verification is a DICOM service for test purposes. A C-ECHO command is transferred to the selected DICOM service, which is defined by the IP address, port number, and AET.

Supported DICOM services

The DICOM services purchased by the customer and to be performed by the corresponding system are to be selected.

Storage

NOTE

At least "Storage" must be selected.

- Select "Storage".

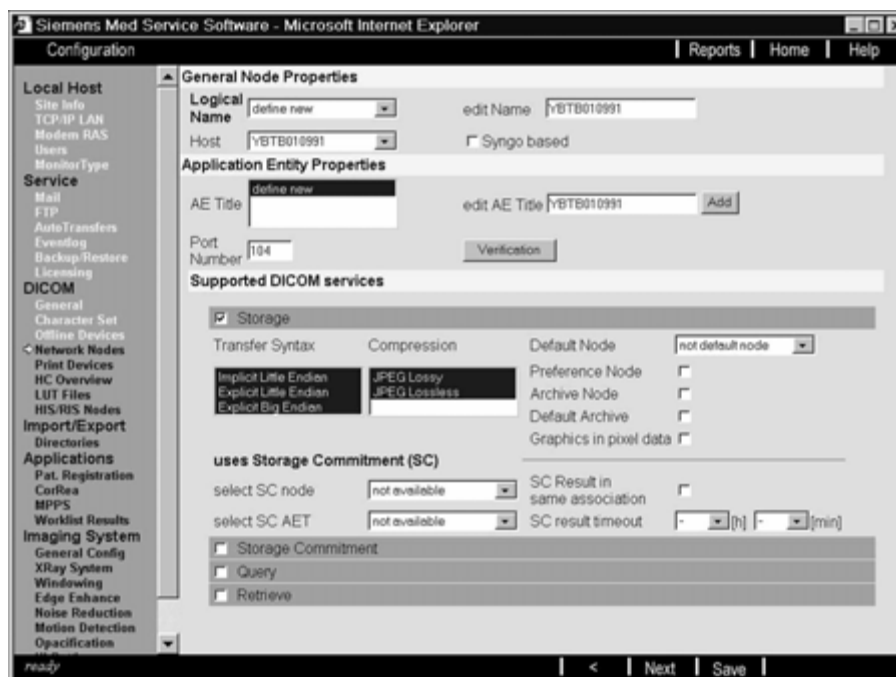


Fig. 67: Configuration_DICOM_Storage

- Do not make any changes under "Storage".

Transfer syntax/compression

- Do not make changes during initial installation.
- Select the transfer syntaxes proposed by the local system to the DICOM node during the association negotiation. When sending images to the DICOM node, this node will choose one of the proposed transfer syntaxes.

- **When receiving images, the local system will choose one of the selected transfer syntaxes.**
 - **Implicit Little Endian:** Implicit (missing) value representation (string, integer, date, etc.). The value representation for each attribute will not be sent as part of the image header and needs to be added at the destination by means of a data dictionary file. Little Endian is a synonym for sending the least significant bit first (byte swap).
 - **Explicit Little Endian:** Explicit (available) value representation (string, integer, date, etc.). The value representation for each attribute will be sent as part of the image header. Little Endian is a synonym for sending the least significant bit first (byte swap).
 - **Explicit Big Endian:** Explicit (available) value representation (string, integer, date, etc.). The value representation for each attribute will be sent as part of the image header. Big Endian is a synonym for sending the most significant bit first (byte swap).
 - **JPEG Lossy:** JPEG defines a set of compression algorithms. With JPEG Lossy, the transferred image will lose data. The quality factor can be set in the customer user interface. This influences the amount of data loss. This transfer syntax should be selected only when explicitly requested by the customer. It is usually used for WAN (modem, ISDN) when the destination node does not need the full image quality.
 - **JPEG Lossless:** This transfer syntax results in a much lower compression factor without data loss.

Default node

Define the display order in the transfer menu by selecting the "First default", "Second default" or "Not default node" entry. Only the first and second node will be displayed in the customer user interface under "Transfer - Send to ...". The other nodes are accessible via a pull-down menu in the customer user interface.

Preference node

A DICOM Storage device can be selected as the preference node. This only affects the keyboard settings. When the "+" button is pressed, the selected study is transferred to the preference node.

Archive node

If this option is selected, the studies sent to the DICOM device will be marked with an "Archive flag" at the patient browser in the customer user interface.

Default archive

If this option is selected, this DICOM device will be set as the archive device in the customer user interface.

Graphics in pixel data

By default, syngo-based systems write the overlay data (annotations, distance, angle, ROI, etc.) into the attribute 6000.3000 and additionally into private attributes (group 0029). The private attributes can only be used by other syngo-based systems. They allow for a "reanimation" of the overlays (i.e., their modification at the destination). Several applications from other vendors are not able to read the overlays in attribute 6000.3000. In this case you need to select this option to shift the overlay data into 12-bit pixel data. Shifting is not possible for images using more than 12 bits.

Uses Storage Commitment (SC)

Here you need to define the Storage Commitment provider, where the commitment shall be sent after image transfer (storage). This is not necessarily the same device as the storage target. Images, for example, can be sent to a workstation which automatically forwards them to an archive. In this case, you may send the Storage Commitment request to the archive device and not to the workstation.

Select SC node

Select the host name of the Storage Commitment provider.

Select SC AET

Select the Application Entity Title of the Storage Commitment provider.

SC result in same association

If you select this option, the Storage Commitment association will stay open until a response from the provider is received or the "SC result timeout" is exceeded.

SC result timeout

Timeout for Storage Commitment response.

Storage Commitment

- Select "Storage Commitment" if the particular DICOM device is to be configured as the Storage Commitment provider.
 - It is not necessarily the Storage Commitment provider used after image transfer from the local device (see "Uses Storage Commitment (SC)").

Query

- Select "Query" if the particular DICOM device is to support query.
 - If this option is selected, the displayed AET is treated as the query provider. The logical name will be displayed in the customer user interface under "Patient - Search". The query service provides a list of the selected patients/studies for the DICOM node just configured.

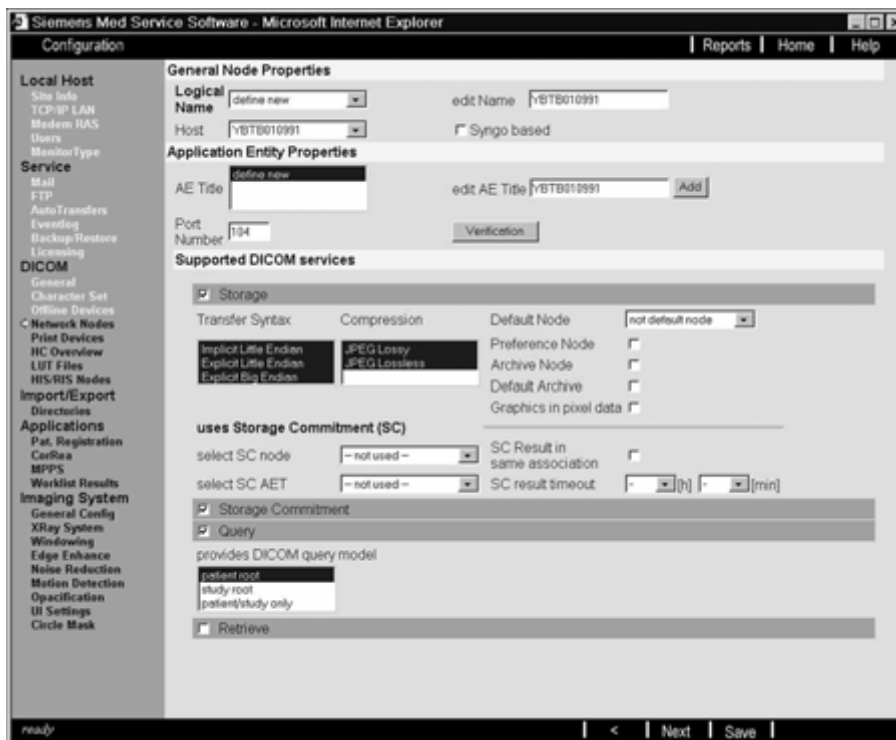


Fig. 68: Configuration_DICOM_Network node_Query

- Select "Patient root" under "Provides DICOM query model".

Retrieve

- Select "Retrieve" if the particular DICOM device is to support query.
 - Select the "Retrieve" option to retrieve the selected images from the DICOM node. Query and Retrieve are typically selected together. The "Retrieve" command causes a Storage service at the remote DICOM node to send the images to the local system.
- Select "Save".
- Select "Next".

Print devices

Here you specify the DICOM laser cameras that are connected to your system via DICOM Basic Print. A postscript paper printer is NOT a DICOM printer! This system does not support the SPCI/SPDI camera interface.

Required data

- The project manager is responsible for obtaining the required data from the customer.
 - Host name and TCP/IP address of the remote host
 - Application Entity Title (AET) and port number of the appropriate DICOM process on the remote host
 - Usually the camera has to be configured as well. The service engineer from the printer company should be on-site for this purpose.

NOTICE

When deleting a laser camera, the proper sequence is to proceed backwards from menu 3 to menu 1. .

⇒ Otherwise, problems can occur, e.g. in the "Filming" task card, in the user interface or when making registration settings.

NOTE

The installation instructions for each released laser camera on CB-DOC are available under "Installation" in the "Camera" catalog.

- Select "Print devices".

Menu 1

Fig. 69: Configuration_DICOM_Print devices_Menu 1

- Search in the "Select host" pull-down menu to see if the DICOM camera is already listed. If so, and if the related data is correct, you can continue with the next menu.
- If the DICOM camera is not listed, select "Define new" under "Select host".

Host properties**Host name**

- Enter the host name of the DICOM camera.
- Select "Find" to check whether the host name is known at the WINS or Domain Name Server (DNS).
 - If this is the case, the IP address is entered in the TCP/IP address field.

TCP/IP address

- If an IP address was not entered automatically, it must be entered manually.
- Select "Test".
 - A ping command is performed for the corresponding IP address.

If the ping is successful, the following window is displayed:



Fig. 70: *Ping_alive*

Pos. 1 Display of corresponding IP address

If the ping is not successful, the following window is displayed:



Fig. 71: *Ping_not alive*

Pos. 1 Display of corresponding IP address

Connected by LAN/RAS

NOTE

"LAN" must be selected when the UROSKOP Access system is connected to a network.

- Select "Save".

- Select ">".

Menu 2

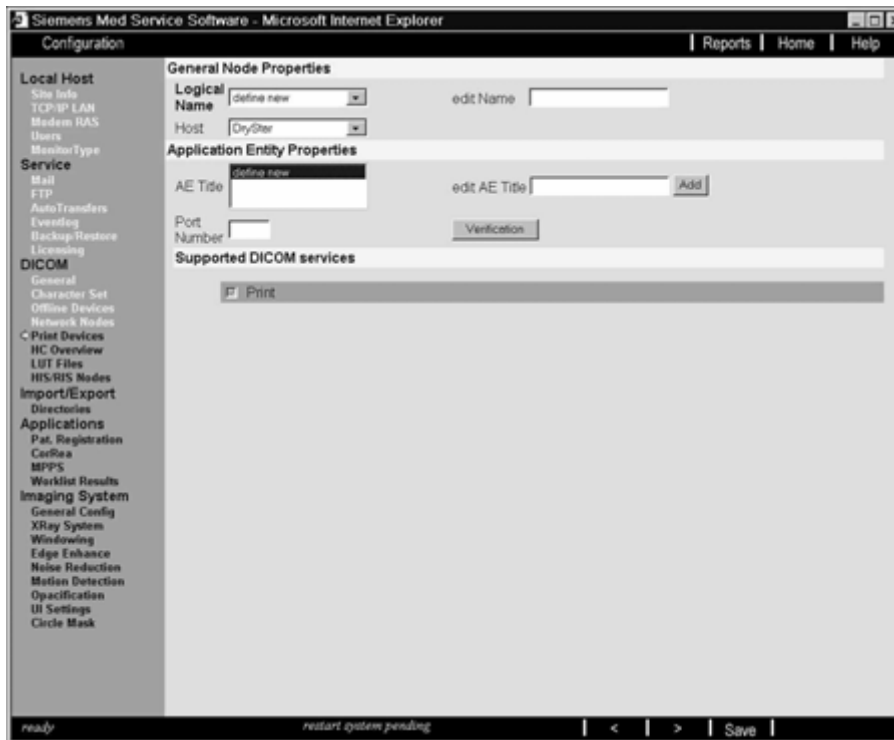


Fig. 72: Configuration_DICOM_Print devices_Menu 2

General node properties

- Select the previously entered host name under "Host".

Logical name

- Select "Define new".
 - Unlike in the case of network nodes and HIS/RIS nodes, the logical name is not shown in the customer user interface. It is used only as a link to the next menu.

Edit name

- Enter a name under "Edit name".
 - The name can be selected freely.

Application entity properties

AE title

- Select "Define new".
 - The already configured AETs are shown in the pull-down menu.

Edit AE title

- Enter a name in the "Edit AE title" field.

Port number

- Enter the port number for the DICOM device.
 - The port number is the TCP/IP port where the DICOM process (defined by the AET) at the DICOM camera is "listening".

- Select "Add".
 - If you select an already configured AET, the "Add" button changes to the "Del" button to delete this AET.

Verification

- Do not select "Verification".
 - DICOM Verification is a DICOM service for test purposes. A C-ECHO command is transferred to the selected DICOM service, which is defined by the IP address, the port number, and the AET.
- Select "Save".
- Select ">".

Camera parameter settings

Menu 3



Fig. 73: Configuration_DICOM_Print devices_Menu 3

Select HC device

Already configured DICOM cameras can be selected in this pull-down menu.

- Select "Define new" under "Select HC device".

HC device

- Enter the name of the camera.
 - This will be displayed in the customer interface in the "Print" tab card.

Default camera

- Select this option to specify the camera as the default camera.
 - The other cameras need to be selected via a pull-down menu in the "Print" tab card in the customer user interface.

Type

- Select "DICOM printer".

Class

- Select your approved DICOM camera in the pull-down menu.
 - If your camera has not yet been approved or is not listed, contact the responsible Headquarter Support Center.

NOTE

Configure the “Filming properties“ of the selected camera as necessary.

- Select "Save".
- Select "Next".

DICOM node**Location**

The location of the camera can be entered here. This information is displayed only in this configuration menu.

Comments

Here you can enter comments, such as the helpdesk phone number or the camera vendor. This information is displayed only in this configuration menu.

Filming properties**Hold printed film jobs.**

The most recent films will remain in the print queue even if the film was printed successfully. The number of films in the queue is defined here.

Min. density

The minimum density value for the camera can be defined here. The maximum density value is set in the "LUT files" menu depending on the modality.

Pixel size [1/1000mm]

This value is entered automatically on the basis of the selected camera (class). The value can be modified here.

Film sheet formats - portrait/landscape

The default film sheet formats are displayed on the basis of the selected camera (class). Existing formats can be modified or new formats can be defined.

Number of pixels [rows, columns]

These formats are entered automatically on the basis of the selected camera (class). In the fields below, the number of pixels (row and column) can be adapted to the media sheet size.

Medium type

Depending on the film used, "blue film", "clear film", or "paper" can be selected.

Film destination

You can select between "Magazine" and "Processor". If you select "Magazine", the exposed film sheets must to be developed in a darkroom. If you select "Processor", the exposed film sheets will be developed automatically.

Color appearance

You can select between monochrome (black & white) or color. This is necessary for printing color images (ultrasound) to a camera that supports color.

Background

The film background can be set to black or white.

Transformation

This value is sent to the camera in the event that pixel interpolation is necessary there. Usually the whole film sheet is calculated at the local system and therefore no recalculation is necessary at the camera. As a result, this parameter has no influence on the camera.

The following interpolation algorithms are possible:

Replicate: The interpolated value is identical to the last pixel value.

Bilinear: The interpolated value is linearly between the last pixel value and the next pixel value.

Cubic: The interpolated value is interpolated cubically between the last pixel value and the next pixel value.

No magnification: Leaves the image unchanged.

HC overview

NOTE

There is no need for the service engineer to use this menu, since the settings and tests can also be performed using the "Print device" menu.

The "HC overview" menu allows the customer to manipulate and test certain camera settings.

- Do not make any changes under "HC overview".



Fig. 74: Configuration_DICOM_HC overview

- Select "Next".

LUT files

This menu allows you to import, remove, and select LUT files (lookup table) for DICOM Basic Print. Currently, no tool is available for modifying lookup tables (LUT editor).

NOTE

The correction LUT for the UROSKOP Access system can be found under XRImage".

In exceptional cases, it may be necessary to select a linear characteristic curve for the UROSKOP Access system. For this purpose, "Nothing selected" must be selected under XRImage.

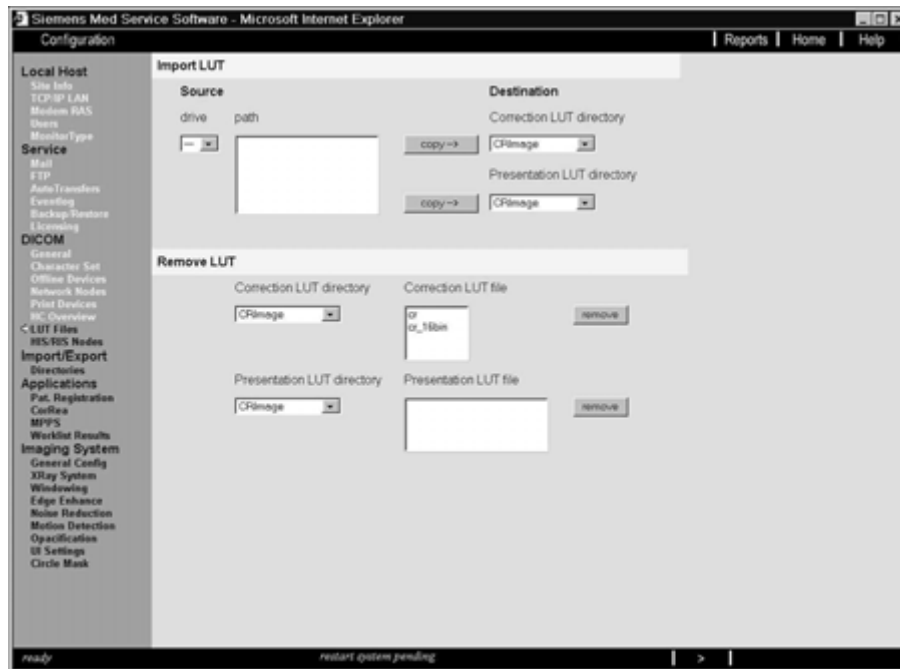


Fig. 75: Configuration_DICOM_LUT files

- Select ">".

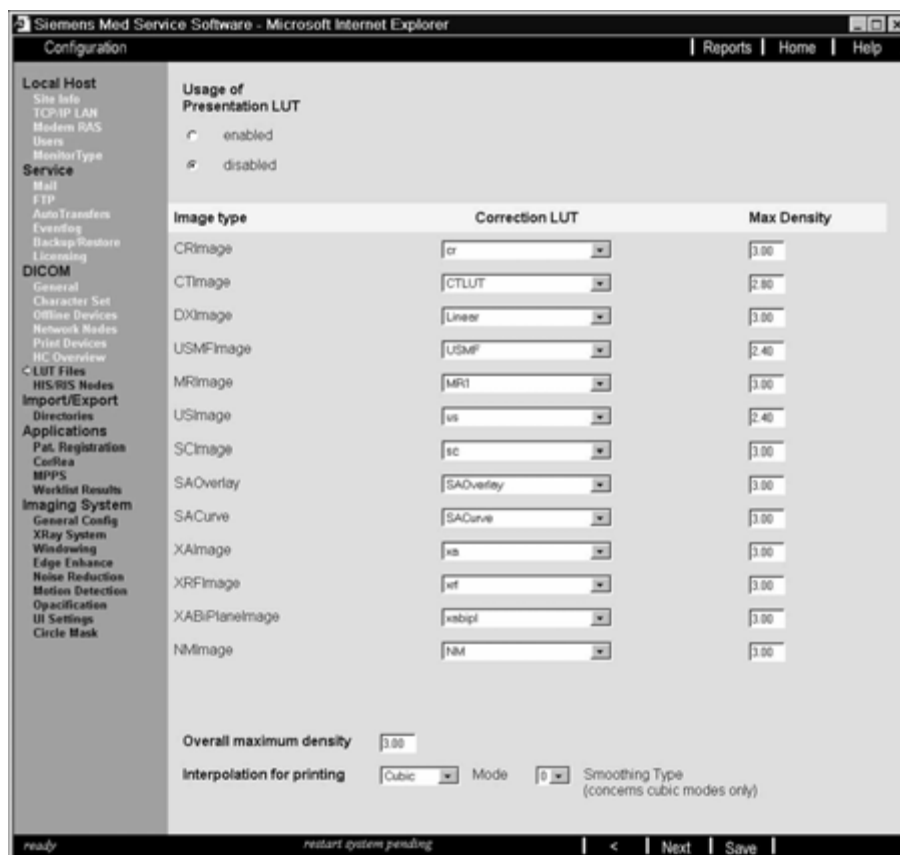


Fig. 76: Configuration_DICOM_LUT files

- If "Enabled" is selected, select "Disabled".
 - The following screen is displayed:



Fig. 77: Configuration_DICOM_LUT files

- Select "xrf_16bin" or "xrfCorr16b-bspline" as the correction LUT under "XRFImage".

Correction LUT

In general, the modality-specific LUT needs to be selected and not the linear LUT. This LUT includes modality-specific and camera-specific settings. It requires a linear LUT at the camera. Be aware that this correction LUT is not the same as the one used when the presentation LUT is enabled. In order to select a linear characteristic curve for the UROSKOP Access system, "Nothing selected" must be selected under XRFImage.

Max. density

- Do not make any changes!
 - The maximum density needs to be set for each LUT. These values typically do not require change since they have already been verified and imported together with the LUT. The "Min. density" value is set once in the "Print device" menu.

Overall maximum density

- Check whether the value is 3.00. If not, enter this value.
 - If images from several modalities are used in the virtual film sheet, this overall density value will be used to recalculate the presentation for each image.

Interpolation for printing

- Check whether "Bilinear" is selected. If not, select.
 - The whole film sheet will be calculated at the local system and then sent in page mode to the camera. Pixel interpolation is necessary to fit the images in the film sheet. The optimum value was already evaluated in the laboratory so that no modification of this parameter is necessary.
 - The following interpolation algorithms are possible:
 - Replicate: The interpolated value is identical to the last pixel value.
 - Bilinear: the interpolated value is linearly between the last pixel value and the next pixel value.
 - Cubic: The interpolated value is interpolated cubically between the last pixel value and the next pixel value.
 - No magnification: Leaves the image unchanged.

Mode

- Do not make any changes!
- If changes were made to one of the previous items, select "Save".
- Select "Next".

HIS/RIS nodes

Configuration of a Hospital Information System (HIS) or Radiology Information System (RIS) that supports DICOM Basic Worklist or the Detached Study Transfer service. In many cases, the RIS is connected via an interface box such as the Mitra Broker (Magi-cLink HL7).

Required data:

- The project manager is responsible for obtaining the required data from the customer.
 - Host name and TCP/IP address of the remote host
 - Application Entity Title (AET) and port number of the appropriate DICOM process on the remote host

Usually the camera has to be configured as well. The service engineer from the printer company should be on-site for this purpose.

- Select "Next".



Fig. 78: Configuration_DICOM_HIS/RIS nodes

- Search in the "Select host" pull-down menu to see if the HIS/RIS node is already listed. If so, and if the related data is correct, you can continue with the next menu.
- If the HIS/RIS node is not listed, select "Define new" under "Select host".

Host properties

Host name

- Enter the host name of the HIS/RIS node.
- Select "Find" to check whether the host name is known at the WINS or Domain Name Server (DNS).
 - If this is the case, the IP address is entered in the TCP/IP address field.

TCP/IP address

- If an IP address was not entered automatically, it must be entered manually.
- Select "Test".
 - A ping command is performed for the corresponding IP address.

If the ping is successful, the following window is displayed:



Fig. 79: *Ping_alive*

Pos. 1 Display of corresponding IP address

If the ping is not successful, the following window is displayed:

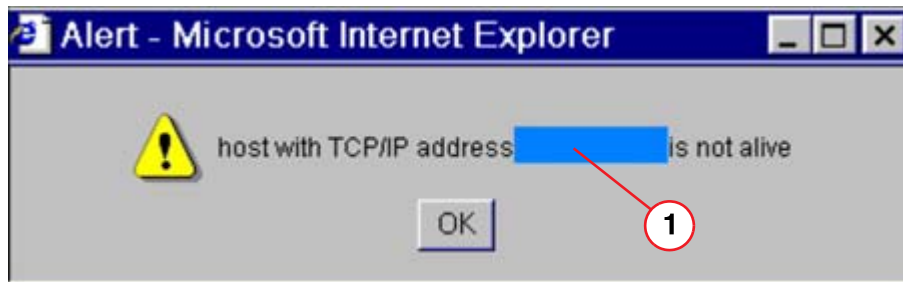


Fig. 80: *Ping_not alive*

Pos. 1 Display of corresponding IP address

- **A TCP/IP ping will fail for the following reasons:**

- The remote host is turned off or not in the same network (or subnet), or the gateway is not configured.
- The TCP/IP address is configured incorrectly.
- A network component (router, switch, bridge, etc.) denies access to the other network.

- Select "Save".

- Select ">".

Connected by LAN/RAS

NOTE

"LAN" must be selected when the UROSKOP Access system is connected to a network.

- Select "Save".

- Select ">".



Fig. 81: Configuration_DICOM_HIS/RIS nodes

General node properties

- Select the previously entered host name under "Host".

Logical name

- Select "Define new".
 - The DICOM Worklist request is performed in the background and only one HIS/RIS can be selected. As a result, the logical name is not displayed in the customer user interface.

Edit name

- Enter a name under "Edit name".
 - The name can be selected freely.

Application entity properties

AE title

- Select "Define new".
 - The already configured AETs are shown in the pull-down menu.

Edit AE title

- Enter a name in the "Edit AE title" field.

Port number

- Enter the port number for the DICOM device.
 - The port number is the TCP/IP port where the DICOM process (defined by the AET) at the HIS/RIS server is "listening".
- Select "Add".
 - If you select an already configured AET, the "Add" button changes to the "Del" button to delete this AET.

Verification

- Do not select Verification!
 - DICOM Verification is a DICOM service for test purposes. A C-ECHO command is transferred to the selected DICOM service, which is defined by the IP address, the port number, and the AET.

Supported DICOM services

Basic Worklist

NOTE

At least Basic Worklist must be selected.

- Select "Basic Worklist".
 - Basic Worklist is the DICOM Modality Worklist service. It is used to retrieve patient and study data from the information system (e.g., RIS).

Query waiting time

- Check whether "20 [sec.]" is entered. If not, enter this value.
 - This is the timeout of the DICOM Worklist process for waiting for a response from the HIS/RIS server.

Max. query match number

- Check whether "200 [matches]" is entered. If not, enter this value.
 - This parameter is used to limit the number of worklist entries to be transferred.

Query interval

- Check whether "60 [minutes]" is entered. If not, enter this value.
 - The time in minutes between DICOM Worklist requests (polling) is entered here.

NOTE

To activate the automatic DICOM Worklist polling function, it is necessary to select "HIS/RIS update worklist in background" in the customer user interface under "Option - Configuration - Patient Registration".

Default Basic Worklist node

- Select "Default Basic Worklist node".
- Select "Save".
- Select "Next".

Performed procedure step

NOTE

This item requires editing only if MPPS is to be used.

Required settings not included in this syngo configuration can be performed only in cooperation with the responsible hospital network administrator.

At the beginning and following patient acquisition, the DICOM Modality Performed Procedure Step service sends data to the information system (e.g., RIS). Select this option if the selected information system is to be used as the destination for this DICOM service.

Default catalog name

- If codes are used, enter the name of the coding catalog used in the information system.
 - MPPS uses codes instead of readable values.

Default catalog version

- If codes are used, enter the version of the coding catalog used in the information system.

Default PPS node

- Select "Default PPS node".
- Select "Save".
- Select "Next".

Import/Export

The system provides the function of importing or exporting DICOM images from/to the file system. In this section, you need to specify the location of the import/export directories. They are located on the local system or on a shared directory.

For shared directories, you first need to configure the host on which the shared directory is located.

To import/export DICOM images, you need to select "Transfer - Import from file system" or "Import/export from file system offline" in the customer user interface.

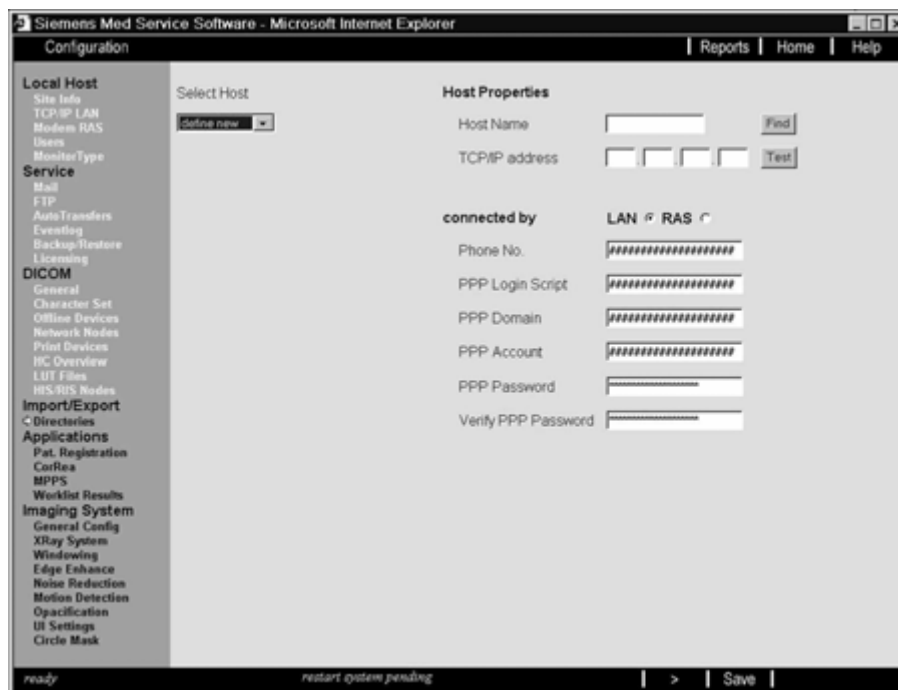


Fig. 82: Configuration_Import/Export_Directories

- Search in the the "Select host" pull-down menu to see if the host is already listed. If so, and if the related data is correct, you can continue with the next menu.
- If the host is not listed, select "Define new" under "Select host".
- If the import/export directory is not located locally on the computer, select ">".

Host properties

Host name

- Enter the host name.
- Select "Find" to check whether the host name is known at the WINS or Domain Name Server (DNS).
 - If this is the case, the IP address is entered in the TCP/IP address field.

TCP/IP address

- If an IP address was not entered automatically, it must be entered manually.
- Select "Test".
 - A ping command is performed for the corresponding IP address.

If the ping is successful, the following window is displayed:



Fig. 83: Ping_alive

Pos. 1 Display of corresponding IP address

If the ping is not successful, the following window is displayed:

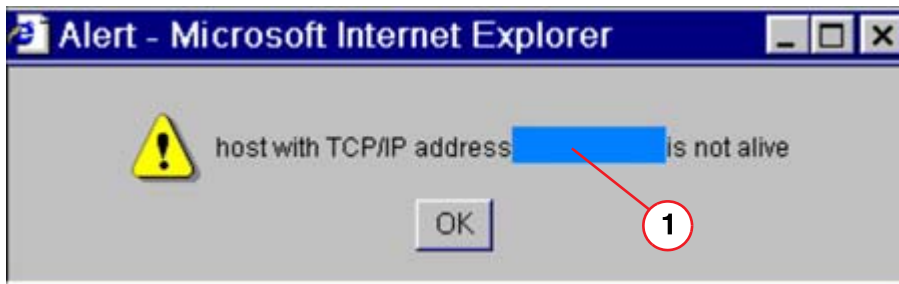


Fig. 84: Ping_not alive

Pos. 1 Display of corresponding IP address

- **A TCP/IP ping will fail for the following reasons:**

- The remote host is turned off or not in the same network (or subnet), or the gateway is not configured.
- The TCP/IP address is configured incorrectly.
- A network component (router, switch, bridge, etc.) denies access to the other network.

Connected by LAN/RAS

NOTE

"LAN" must be selected when the UROSKOP Access system is connected to a network.

- Select "Save".
- Select the entered host name under "Select host".
- Select ">".



Fig. 85: Configuration_Import/Export_Directories_Logical HD device

Select logical HD device

- Select "LOCAL" under "Select logical HD device".
 - "LOCAL" must be listed under "Logical name" and "C:\temp" must be listed under Path. If this is not the case, enter these designations.
- Select "DICOM_Tools" under "Select logical HD device".
 - "DICOM_Tools" must be listed under "Logical name" and "C:\Aspia\service\dst\img" must be listed under Path. If this is not the case, enter these designations as described below.
- Select "Define new" under "Select logical HD device".
- Enter "DICOM_Tools" under "Logical name".
 - The logical name will be displayed in the customer user interface under "Transfer - Off-line - Export/Import".
- Select drive name "C:\" under "Drive".
- Select "ASPIA", "Service", "dst" and "img" under "Paths".
- Select "Save".

Local system

If the import/export directory is located on the local system, select this option.

Remote system

If the import/export directory is located on a remote system, you need to select "Remote system" and specify the host and shared directory.

Host

Enter the host name defined in the previous menu.

Share

The shared directories on the selected host are displayed. Select the appropriate import/export directory.

- Select "Next".

External devices

Paper printer

The driver for the paper printer must be installed as described in the "Software; Service Information" instructions (print no. SP00-000.816.01).

This menu allows you to specify the media format.

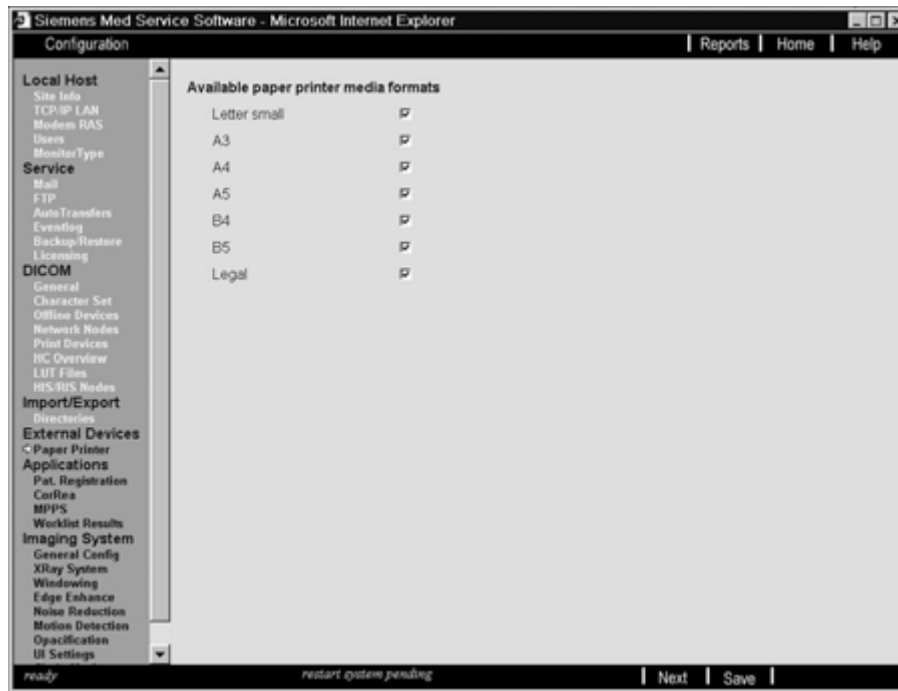


Fig. 86: Configuration_External devices_Paper printer

- Select the paper format if a paper printer is connected.
- Select "Save".
- Select "Next".

Applications

Menus for setting the application parameters are available under "Applications".

NOTE

These settings are usually performed by the application specialist and not by the CSE.

- Do not make any changes.



Fig. 87: Configuration_Applications_Pat. registration

Pos. 1 Requested procedure

- If MPPS is used, select "Requested procedure" under Study (1/Fig. 87 / p. 96) and then select "Save".
- Select "Next" twice.

CorRea

(Correct & Rearrange)

This menu allows you to set the attributes as needed that can be modified in the Correct & Rearrange platform.



Fig. 88: Configuration_Applications_CorRea

- Select "Save".
- Select "Next".

MPPS

(Modality Performed Procedure Steps)

NOTE

Required settings not included in this syngo configuration can be performed only in cooperation with the responsible hospital network administrator.

- Do not make any changes.
 - The attributes defined here are displayed in the customer user interface when an MPPS message is sent to the RIS.



Fig. 89: Configuration_Applications_MPPS

- Select "Next".

Worklist results

- Do not make any changes!
 - The attributes defined here are displayed in the patient registration form after a DI-COM Worklist request.



Fig. 90: Configuration_Applications_Worklist results

- Select "Save".
- Select "Next".

NOTE

This concludes the "syngo Configuration" chapter.

UROSKOP Access imaging system configuration

- Select "Configuration" under Home menu.



Fig. 91: List of system options

The settings from "Attached to network" to "SNMP" are described in the "syngo Configuration" chapter.

- Select "Second monitor" when a second monitor is present.
- Select "Dose measurement" when there is dose measurement.
- Select the installed image intensifier size.

NOTE

The setting of the image intensifier size is important for reliability.

- Select "Next" in the footer bar.

General config.

- Call up "General config."

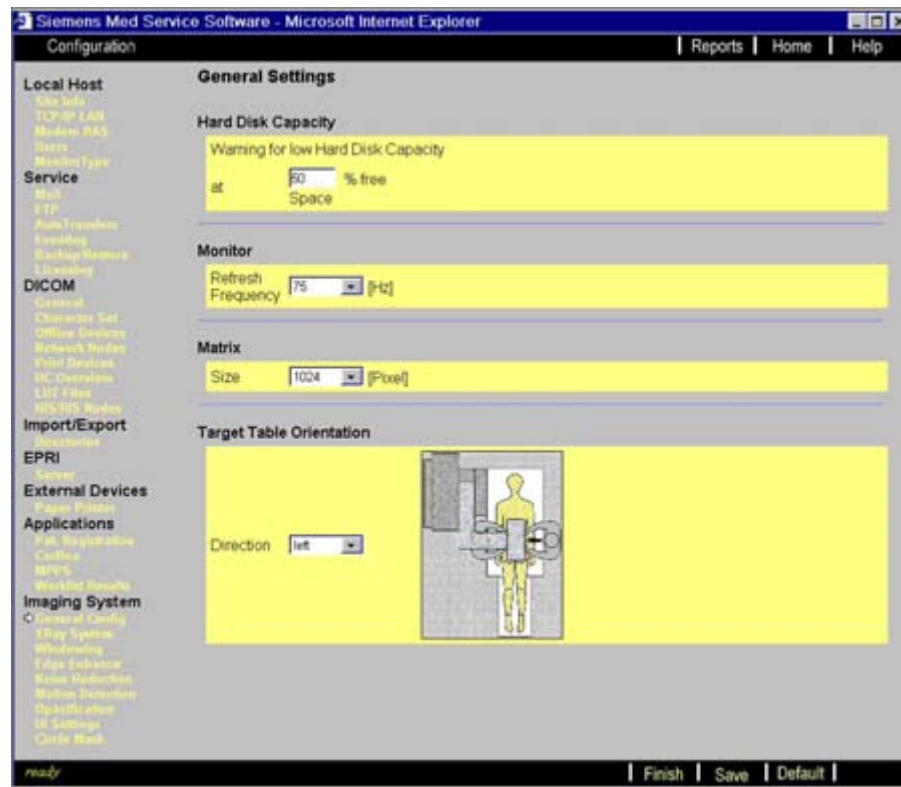


Fig. 92: Imaging system_General config

Hard disk capacity

- Do not make any changes.
 - There is no function here.

Monitor

- Select "75 Hz" under Refresh frequency.

Matrix

- Select "1024 pixels".
 - 512 pixels are not used for UROSOP Access.

Target table orientation

- Select the setting depending on the configuration of the UROSOP Access system.
 - The setting relates to whether the UROSOP Access system has a left or right configuration as viewed from the table.
- Press "Save"
- Press "Next"

X-ray system

- Select "X-ray system".

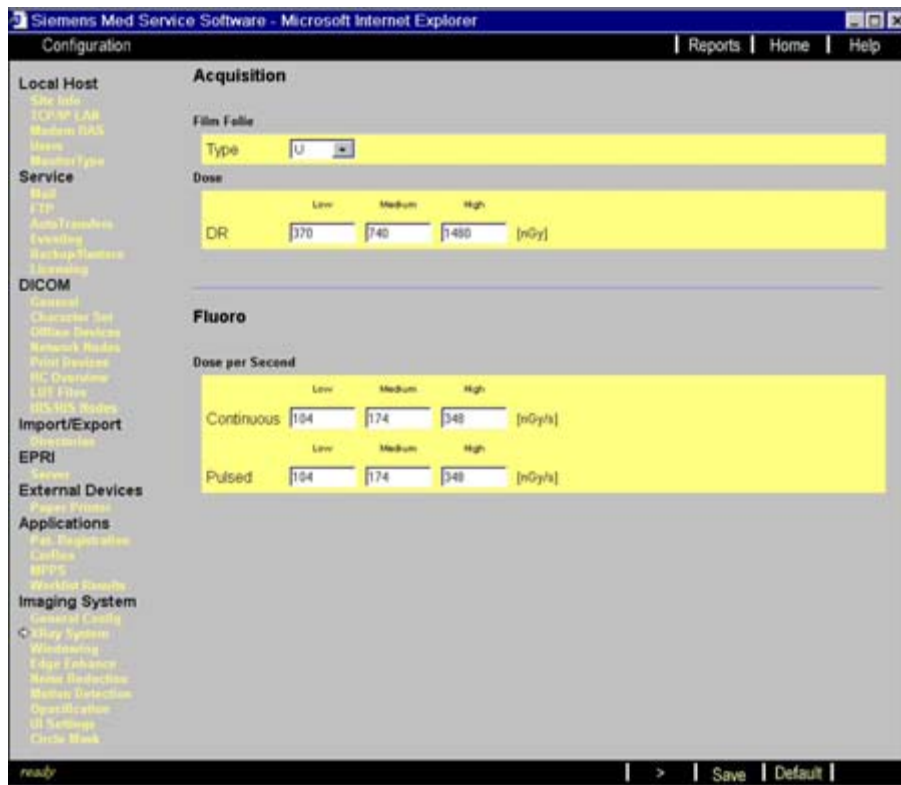


Fig. 93: Imaging system_ X-ray system

Film screen

- Set the type according to customer requirements (H, U or D).
 - This information can be taken from the SPL checklist.

Checking the set values for dose or dose rate

When reinstalling the imaging system (e.g., when replacing a computer or in case of an error), the system-specific dose or dose rate values must be imported via "Restore".

- Check whether the dose or dose rate values imported via "Restore" agree with the values listed in "Test report 1" (distributed as of July 2003). If this is not the case, use the values from "Test report 1" (available in the system file folder).
- If neither a backup nor a "Test report 1" is available on-site, the dose and dose rate values listed below are to be entered.

NOTICE

If neither a backup nor a "Test report 1" is available, the dose and brightness values for fluoro/DR must be checked.

⇒ To adapt the required dose or dose rate, the default values can be changed accordingly in a necessary adjustment.

Tab. 2 Default values for XCU version VE01C

	Low	Medium	High	
DR	410	820	1640	nGy/f
Fluoro - continuous	122	174	348	nGy/s
Fluoro - pulsed	140	200	400	nGy/s

Tab. 3 Default values for XCU version VE01A

	Low	Medium	High	
DR	370	740	1480	nGy/f
Fluoro - continuous	104	174	348	nGy/s
Fluoro - pulsed	104	174	348	nGy/s

NOTE

Legal regulations must be observed.

NOTE

"System compatibility list software" available on-site at the system can be used to check which XCU software version is installed on the system.

- Select "Save".

- Select ">".

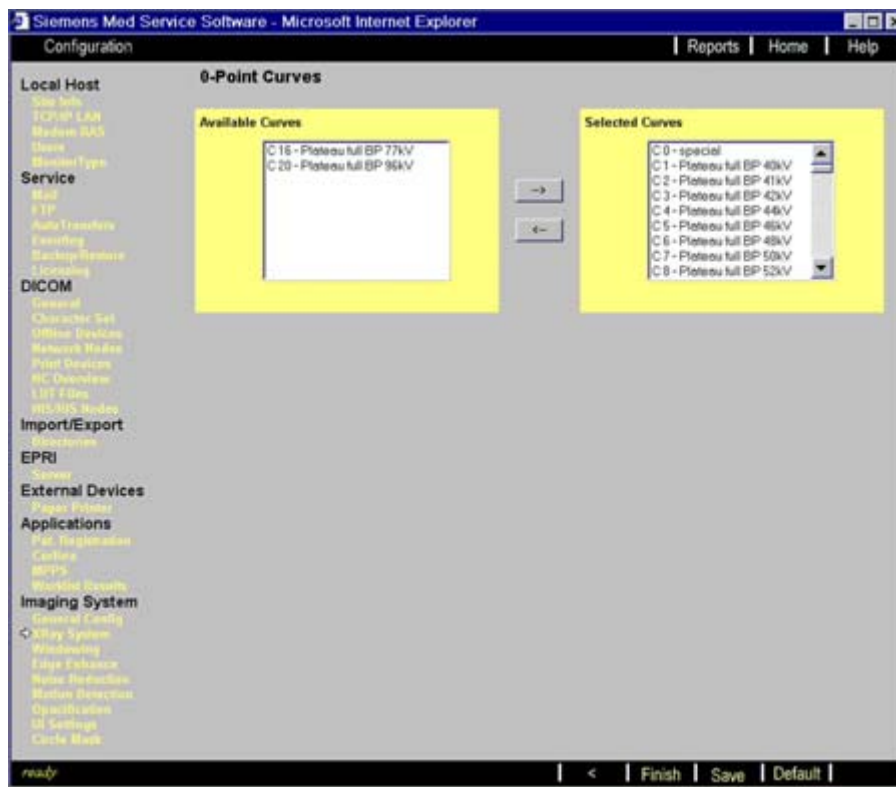


Fig. 94: Imaging system_X-ray system_2

NOTE

If you press the "Save" or "Default" button in the window shown above (Fig. 94 / p. 104) during an initial installation, you must reinstall imaging system software VA14A.

- Press "Next"
 - Do not make any changes for UROSKOP Access.

Windowing

NOTE

If no files are displayed under Windowing, Edge Enhance, Noise Reduction, or Motion Detection, the Transfer Manager must be activated to process the files.

NOTE

If you press the "Save" or "Default" button under Windowing during an initial installation, you must reinstall imaging system software VA14A.

- Select "Windowing".

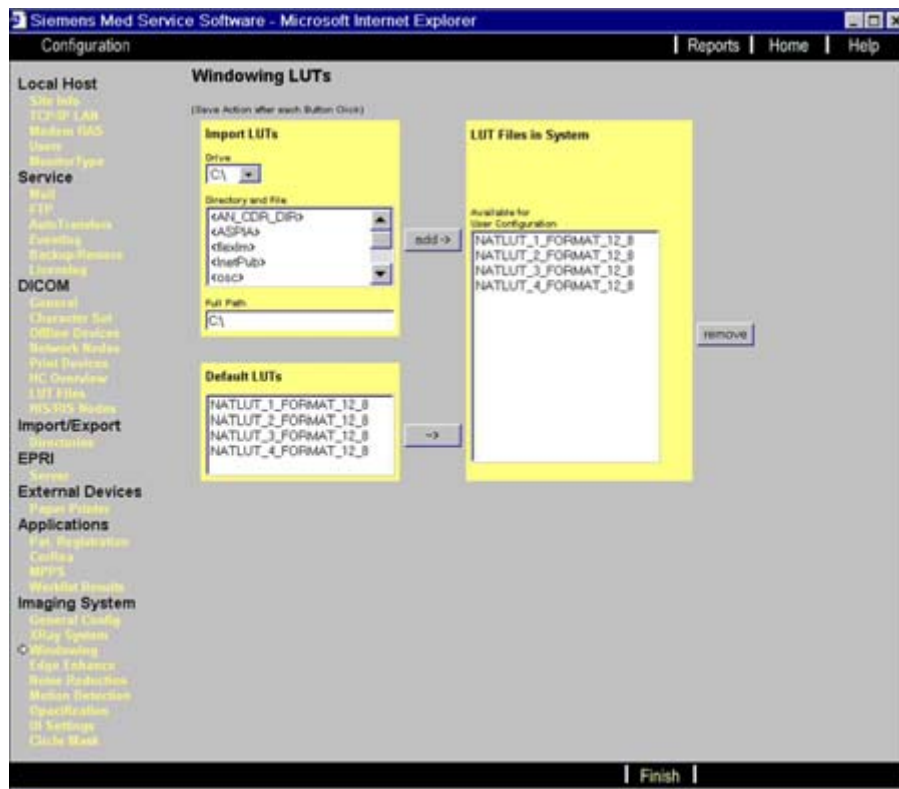


Fig. 95: Imaging system_Windowing

- Select "Next".
 - Do not make any changes for UROSOP Access.

LUT files in system

(Available for user configuration)

The available LUT files are displayed here.

Default LUTs

The LUTs delivered by default are displayed here.

Import LUTs

- Proceed as follows to import LUT files as needed:
 - Select the required drive under "Drive".
 - Select the file to be imported under "Directory and file".
 - Press "Add"
 - The complete path is displayed under "Full path".

Edge enhance

NOTE

If you press the "Save" or "Default" button under Edge enhance during an initial installation, you must reinstall imaging system software VA14A.

NOTE

No new edge enhance filters can be imported under the "Edge enhance" menu item.

The import of necessary "edge enhance filter 3" is described in this chapter.

- Select "edge enhance".

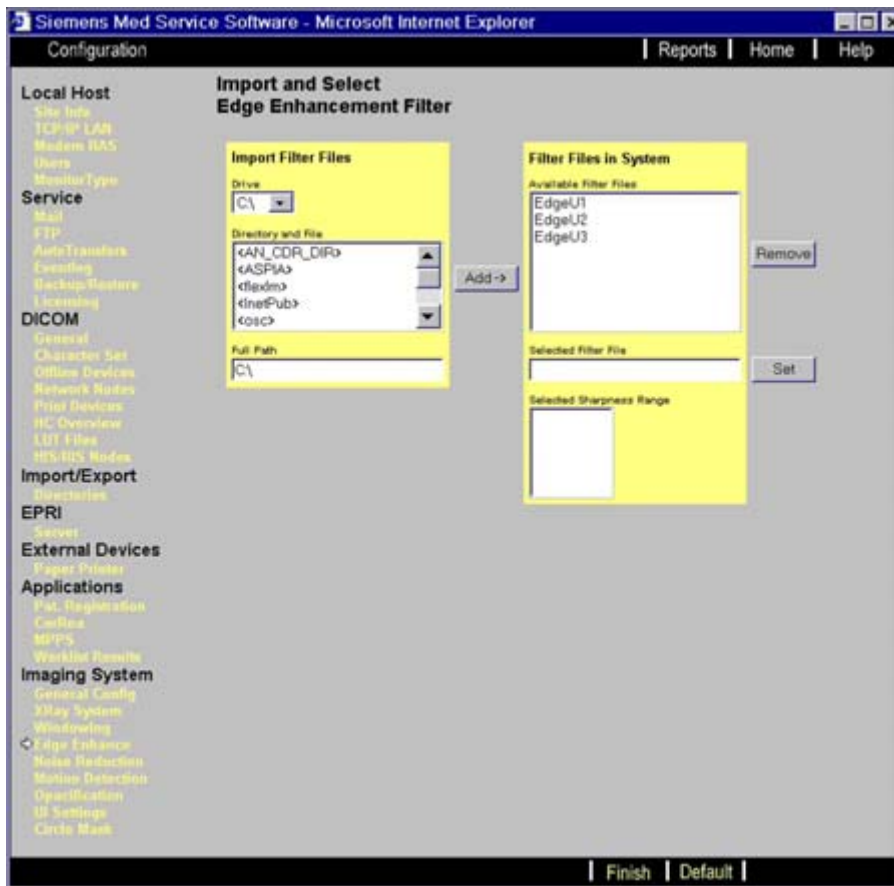


Fig. 96: Imaging system_Enhance

- Press "Next".
 - Do not make any changes for UROSKOP Access.

Noise reduction

- Select "Noise reduction".



Fig. 97: Imaging system_Noise reduction

- Press "Next".
 - Do not make any changes for UROSOP Access.

Assignment files in system

The available files are displayed here.

Import assignment files

- Proceed as follows to import assignment files:
 - Select the required drive under "Drive".
 - Select the file to be imported under "Directory and file".
 - Press "Add".
 - The complete path is displayed under "Full path".

Motion detection

- Select "Motion detection".

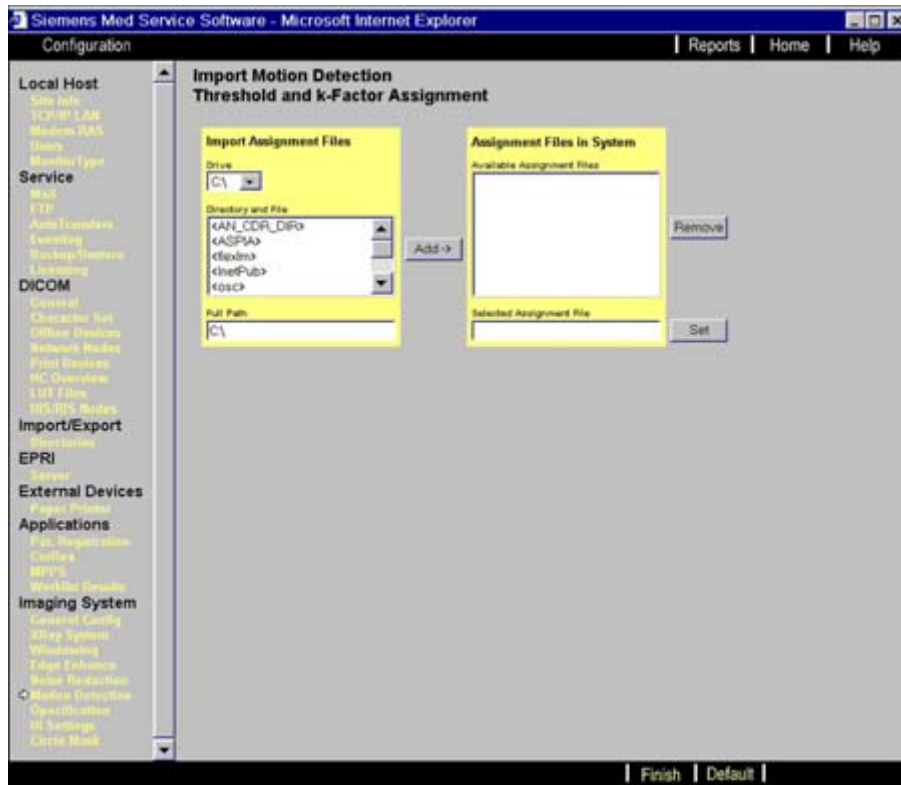


Fig. 98: Imaging system_Motion detection

- Press "Next".
 - Do not make any changes for UROSKOP Access.

Assignment files in system

The available files are displayed here

Import assignment files

- Proceed as follows to import assignment files:
 - Select the required drive under "Drive".
 - Select the file to be imported under "Directory and file".
 - Press "Add".
 - The complete path is displayed under "Full path".

Opacification

- Select "Opacification".

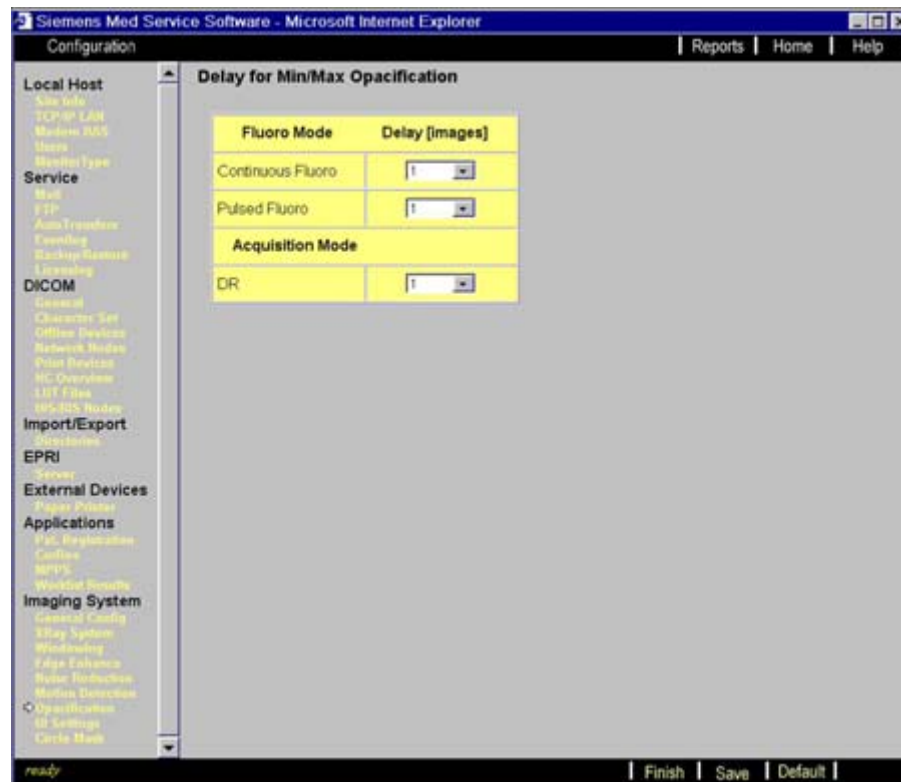


Fig. 99: Imaging system_Opacification

The number of images that are not used for the min./max. opacification at the beginning of fluoroscopy or exposure is defined here.

Fluoro mode

- Check whether "1" is selected under "Continuous fluoro".
- Check whether "1" is selected under "Pulsed fluoro".

Acquisition mode

- Check whether "1" is selected under "DR".
- Select "Save" if changes were made.
- Select "Next".

UI settings

- Select "UI settings"



Fig. 100: Imaging system_UI settings

Split screen

- Select "4x4".

Patient ID

- Select "Enabled".

Scene length

- Enter "5" as a minimum.
- Enter "60" as a maximum.

Cu filter

- Select "Enabled".

Collimator fade out

- Enter "5" for the delay.
 - The display time of the collimator position is set according to manual adjustment of the collimator.

Metering system fade out

- Enter "5" for the delay.
 - The display time for the dose measurement fields in the live image is set here. If the customer does not wish to see the metering system fade out, this can be set by entering "0" for the delay.
- Select "Save".

- Select "Next".

Circle mask

- Select "Circle mask".

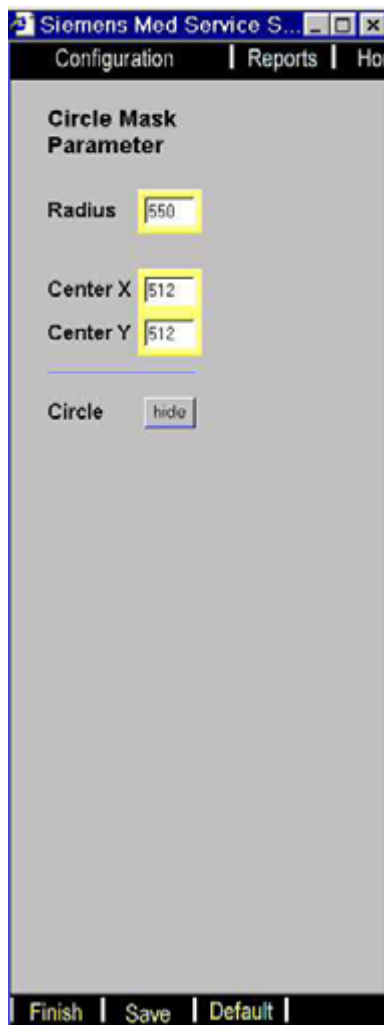


Fig. 101: Circle mask

The circle should be set so that it covers the image intensifier as centrally as possible and is not located in the "gray" region of the image intensifier.

- Select "Save".
- Select "Finish".
 - Do not make any changes for UROSKOP Access.

Circle mask parameter

Radius: The radius of the blanking circle is set here.

Center X and Y: The center of the circle can be set here.

Circle: Click on "Hide" and "Show" to select and deselect the display.

- Press "Save".
- Press "Finish". The configuration bar is displayed again.
 - A restart is necessary to activate the "Circle mask" settings.
- Select "Home".
 - Confirm the pop-up window by clicking on "OK".
A restart is performed automatically.
- Switch the UROSKOP Access system completely off.
 - Wait until the UROSKOP Access system has completely shut down.
- Switch the UROSKOP Access system back on.

NOTE

This concludes the "UROSKOP Access Imaging System Configuration" chapter.

Proceed with the chapter ([Siemens Remote Service / p. 133](#)).

Restore

NOTE

A backup of software versions VA13B/VA13C can be restored to software version VA14A.

NOTE

If multiple backups are created, the same sequence has to be applied during a restore:

1. "SW-Settings 02"
2. "ASPIA Settings"
3. "ExamSets"

It is also possible to load only the "ExamSets".

In an case, this has to be followed by a complete backup of the "SW-Settings 02", "ASPIA Settings" and "ExamSets".

NOTICE

Loading a single backup package may result in undesired system functions.

- ⇒ During restore, the "ASPIA Settings" may not be loaded alone.
 - ⇒ During restore, the "SW-Settings 02" and "ASPIA Settings" may not be loaded without the "ExamSets".
-

NOTE

- Steps to be performed are preceded by a bullet point.
 - Text indented below a step provides general information.
-

NOTE

A backup of a UROSKOP Access system cannot be loaded on another UROSKOP Access system.

NOTE

Be aware that the settings for the time zones are not transferred during restore.

NOTE

A restore from a backup of software versions VA13B/C is allowed, but not from software version VA12.

Restore

The Service Home menu is displayed.

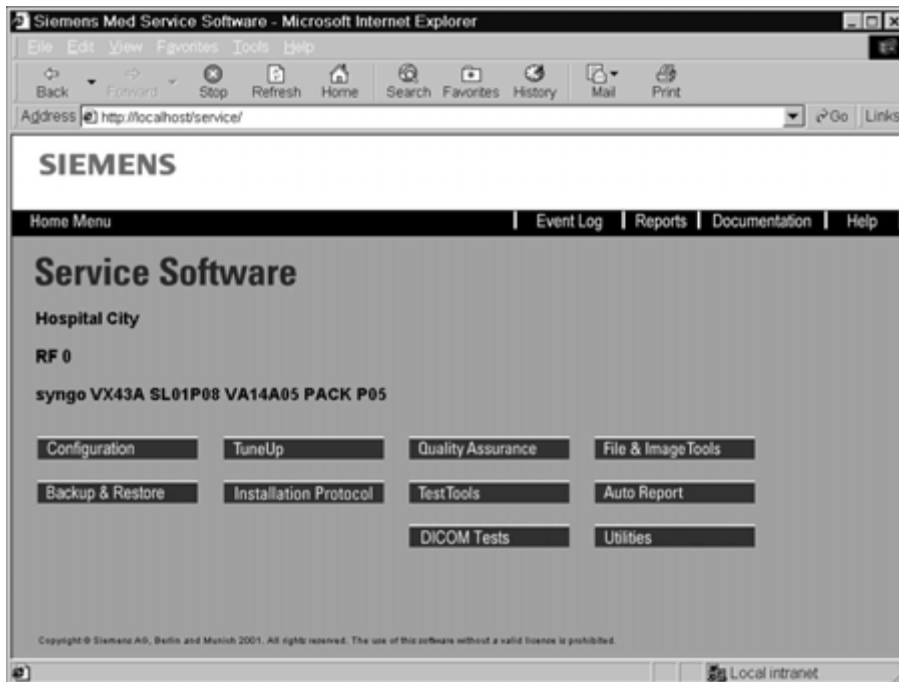


Fig. 102: Home menu

- Select "Backup & Restore".
- Insert the CD-ROM or the floppy disk.

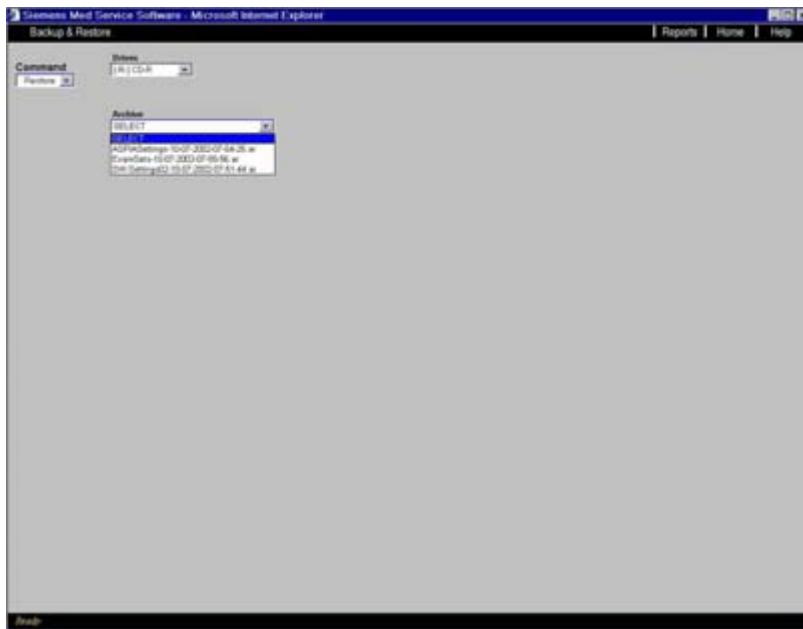


Fig. 103: Backup & Restore_Command

- Select "Restore" under Command

- Select "CD-ROM" or "Floppy disk" under Drives.

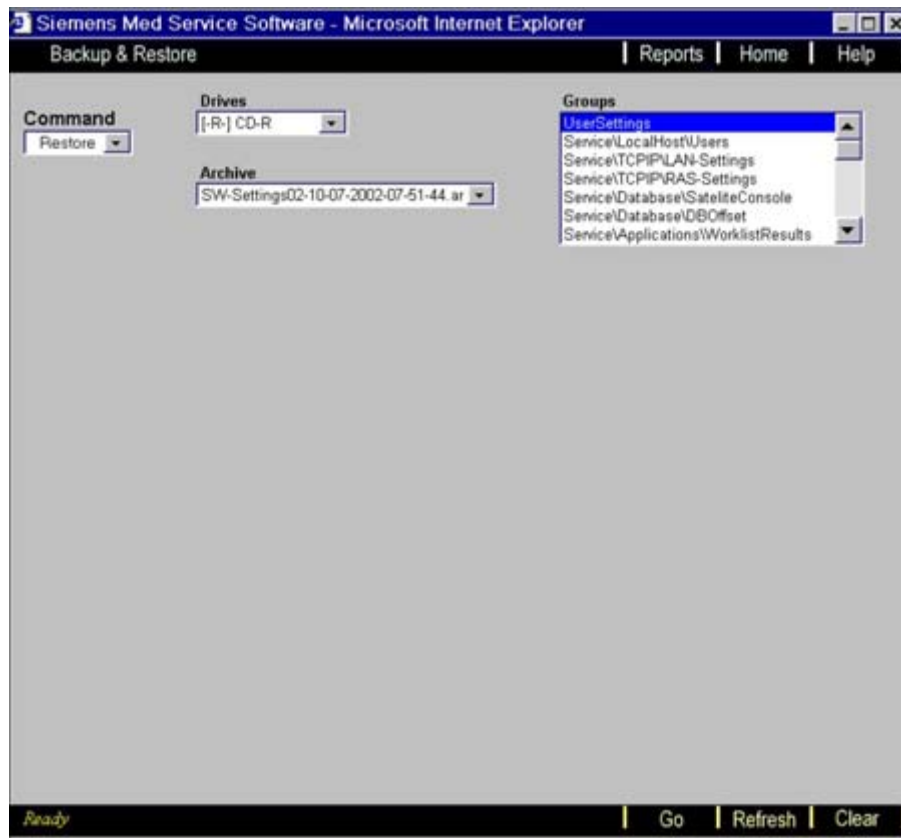


Fig. 104: Backup & Restore_Archive

- Select the correct (latest) "SW-Settings02-xx.ar" backup file under Archive.
- Select all files in "Groups"
 - Scroll within the "Groups" window.
- Click on "Go".
 - Wait until the "Ready" message appears in the footer bar. This process can take several minutes.
- Select the correct (latest) "ASPIASettings-xx.ar" backup file under Archive.
- Select all files in "Groups"
- Click on "Go".
 - Wait until the "Ready" message appears in the footer bar. This process can take several minutes.
- Select the correct (latest) "ExamSet-xx.ar" backup file under Archive.
- Select all files in "Groups"
- Click on "Go".
 - Wait until the "Ready" message appears in the footer bar. This process can take several minutes.
- Close the window by clicking on "Home"
- Remove the CD-ROM.

NOTE

If the PC type was not changed, restart Windows NT via the start button and by selecting "Shutdown". Select "Restart" in the "Shutdown Windows" window.

Additional restore workflow when changing the PC type

NOTICE

A restore from PC type Celsius 420/444 to PC type Celsius M410 can result in defective PC performance.

⇒ If the PC type changes during a computer change, proceed as described in the following workflow.

- Select "Configuration" in the Service software home menu.

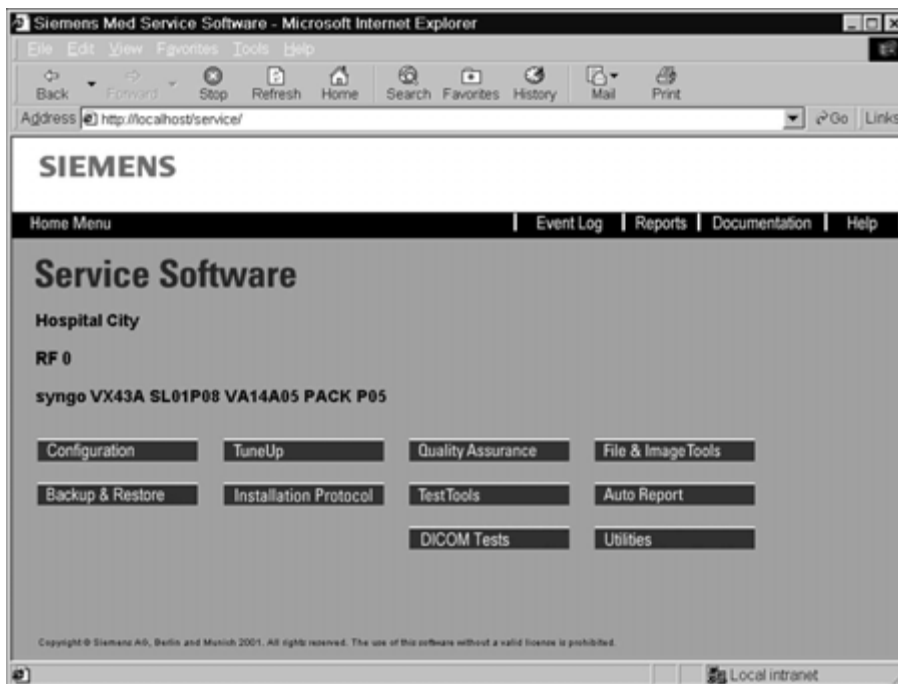


Fig. 105: Home menu

- Select "Next".

- Select "TCP/IP LAN" under Local Host.

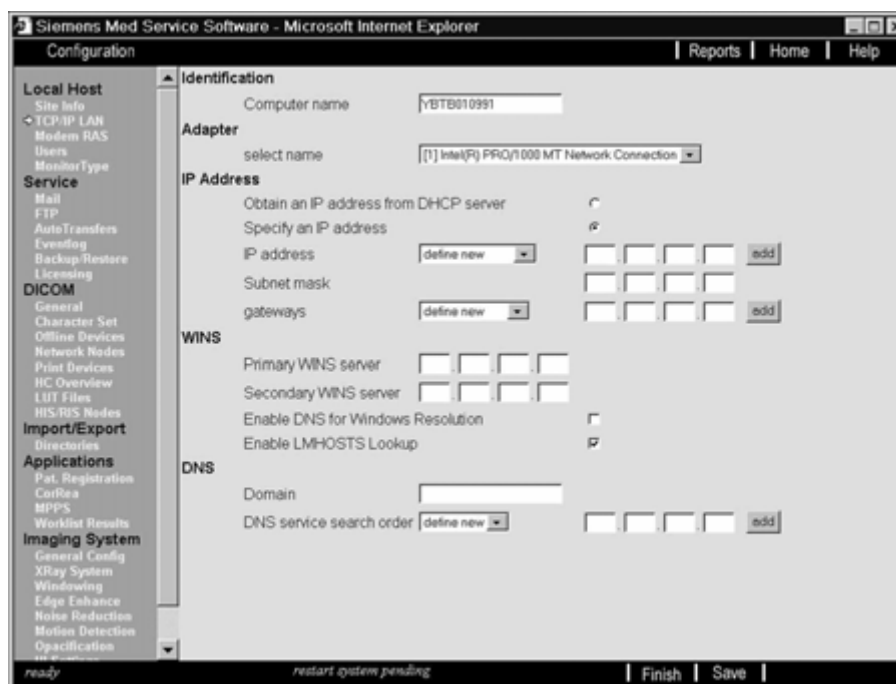


Fig. 106: Local Host_TCP/IP LAN

- Select the IP address already entered in the selection field under IP address/IP address.
 - The IP address loaded by the restore is displayed in the "IP address" field;
 - the same is true for the "Subnet mask" field.
- Make a note of the IP address and the subnet mask and delete these two values from the fields.
- Manually enter the noted IP address and subnet mask in the fields provided for that purpose and confirm the entry by clicking on the top Add button.
- Select "Save".
- Confirm each subsequent message by clicking on "OK".
- Select the new IP address entered in the selection field under IP address/IP address.
 - The IP address as well as the subnet mask appear in the corresponding fields.

NOTE

If IP address 192.168.1.1 is listed in the selection field under IP address/IP address, it and the related subnet mask/gateway may not be used. This IP address is a set value for test purposes.

Ask you local network administrator for the information needed for the workflow described here.

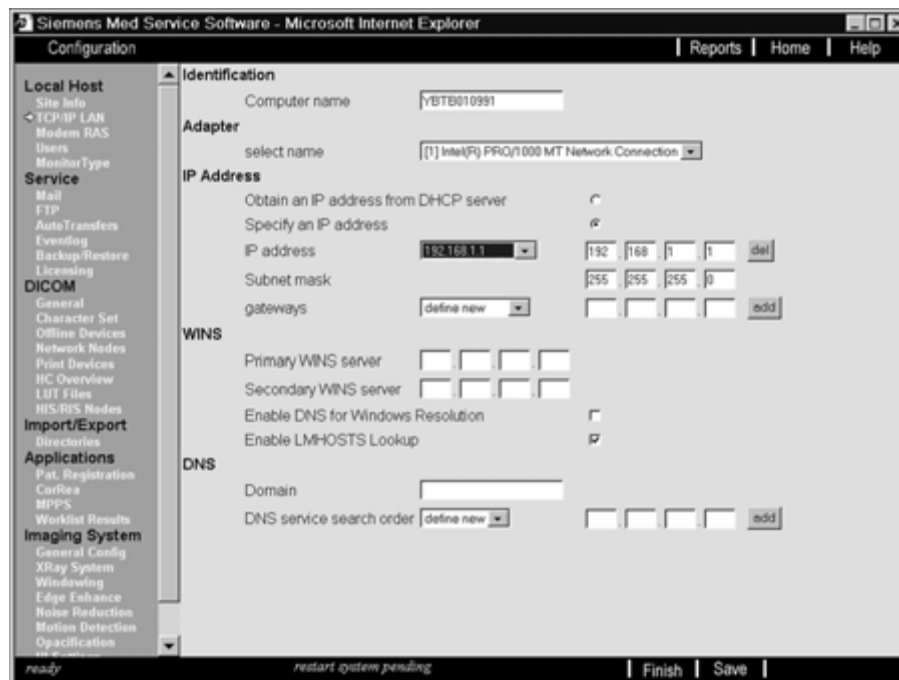


Fig. 107: Local Host_TCP/IP LAN

- Select "Save".
- Confirm each subsequent message by clicking on "OK".
- Close the window by clicking on "Home"
- Confirm the "A reboot is necessary" window by clicking on "OK".

NOTE

A "Network binding" window is displayed briefly. The system then shuts down.

NOTE

This concludes the "Restore" chapter.

Time zone settings

- Select "Local service" in the UI under Options.
- Enter the service key under "Please enter password" and confirm it by clicking on "OK".
- Select "Configuration" in the Service software home menu and proceed by clicking on "Next".
- Select "Site info." under Local Host and proceed by clicking on ">".



Fig. 108: Local Host_Site info

- Check the values entered in this screen and correct them as necessary.
- Activate "**AutoDaylightTime**".
 - "AutoDaylightTime" should only be deactivated upon specific customer request.
- Select "Save".
 - **The following is displayed:**



Fig. 109:

- Select "OK".
- Select "Finish".

Manual settings

Country-specific keyboard layout

You can choose English or German for the keyboard layout.

- Select "Configuration" in the UI under "Options".

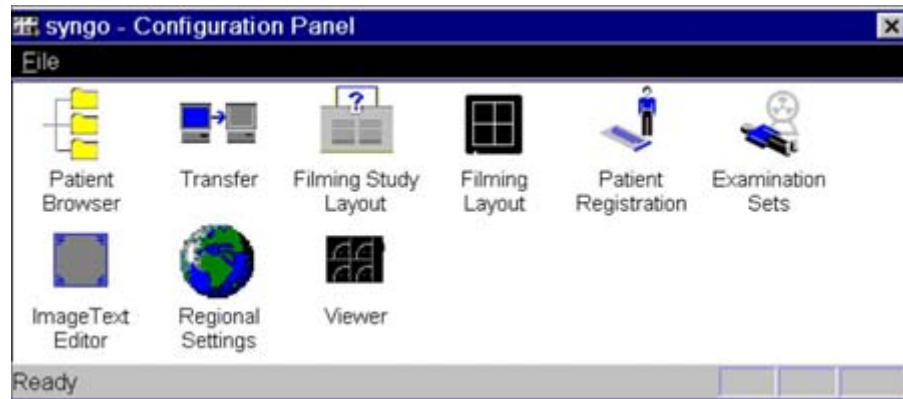


Fig. 110: syngo configuration panel

- Double-click on "Regional settings".



Fig. 111: Regional setting properties

- Select the desired language in the "Regional settings" task card.
- Select "Apply".

Language for the user interface

- Select the "Input locales" task card.

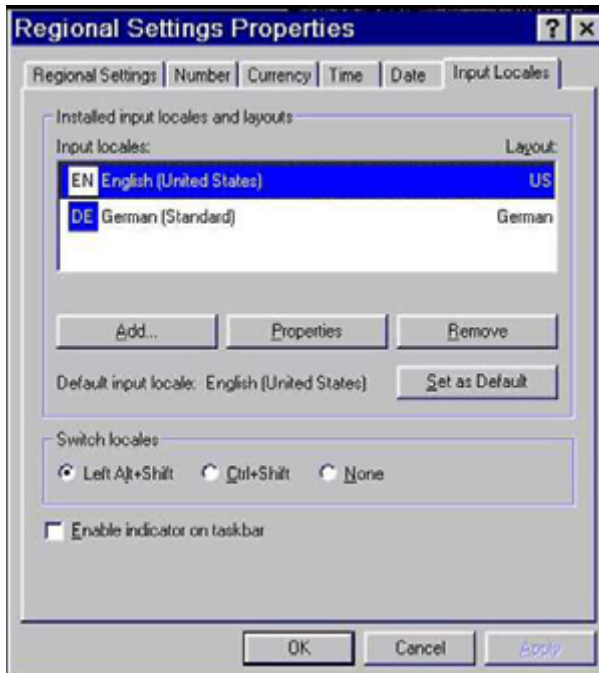


Fig. 112: Regional setting properties_Input locales

- Double-click on the desired layout in the "Input locales" task card.
 - The "Input locale properties" window is displayed.



Fig. 113: Input locale properties

- Select the desired layout for your keyboard under "Keyboard layout".
- Select "OK".
- Select "Set as default".
- Select "Apply".
- Select "OK".
- Confirm the "Regional settings" window by clicking on "OK".
 - This saves the settings, and the application is restarted.

Backup/Restore

- Select "Backup/Restore" under "Service".

Backup/Restore allows you to specify the data to be saved and restored when executing the Backup & Restore function of your service software. The time and destination for backup and restore will not be set in the configuration platform, but rather in the actual Backup/Restore.

Specify the packages, groups, directories, and files to be included in the Backup&Restore procedure and the batch procedures to be executed when performing the corresponding action.

The Restore procedure permits the selection of all packages and groups or of only certain groups or packages.

NOTE

Auto Backup is not supported by this software version.

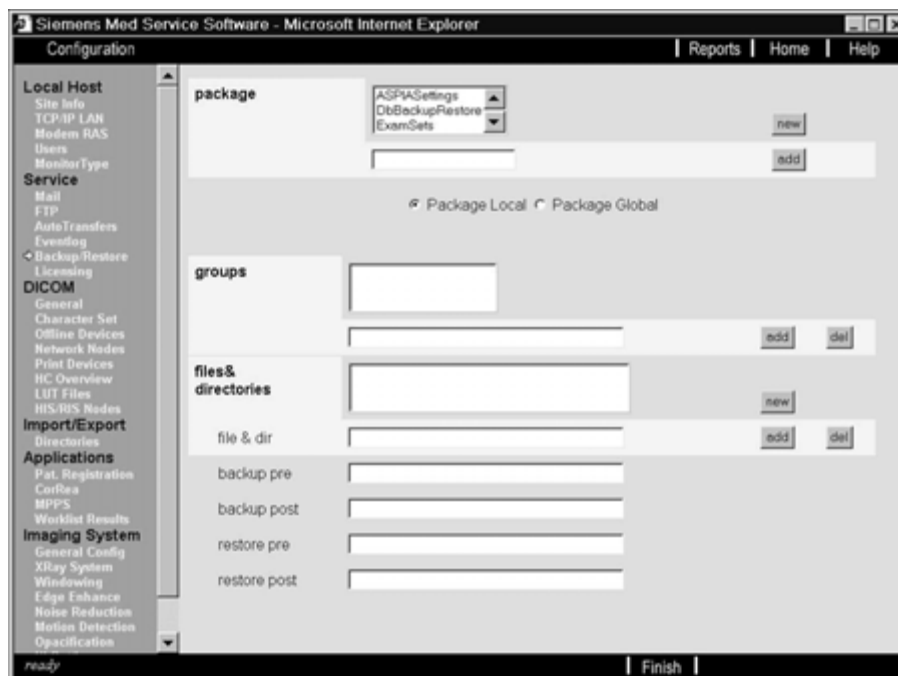


Fig. 114: Service_Backup/Restore

- Select "DbBackupRestore" under "Package" and click on "Delete" in the footer bar of the screen ((1/ Fig. 115 / p. 124)).
 - Confirm the pop-up window by clicking on "OK".

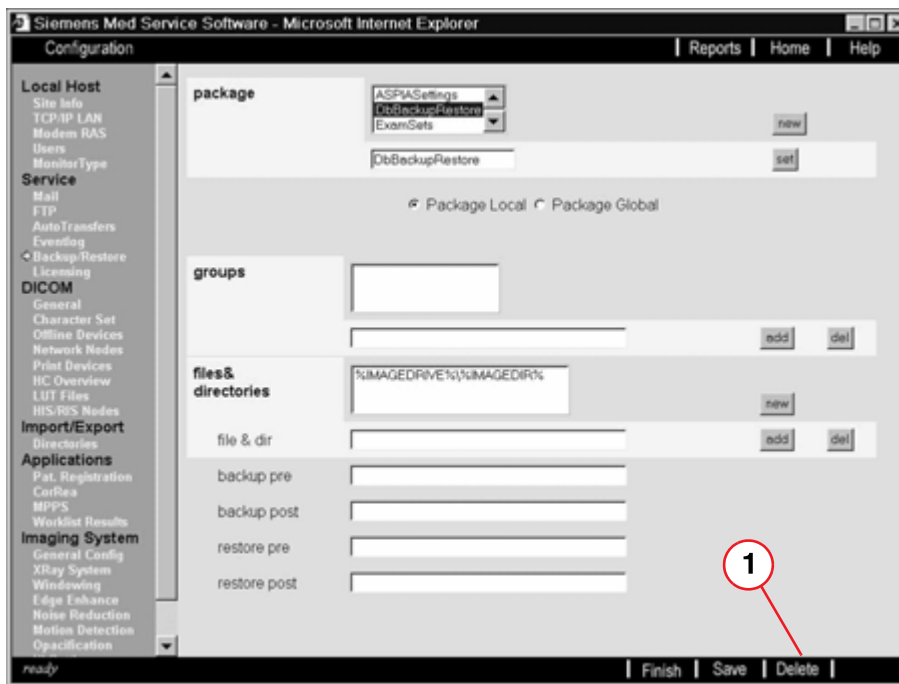


Fig. 115: Service_Backup/Restore_Package

Pos. 1 Button

NOTE

Note that the text entry "_" is not permitted!

- Enter "XBurner package" as described in the picture below and accept this entry by clicking on the "Add" button (1/ Fig. 116 / p. 125).

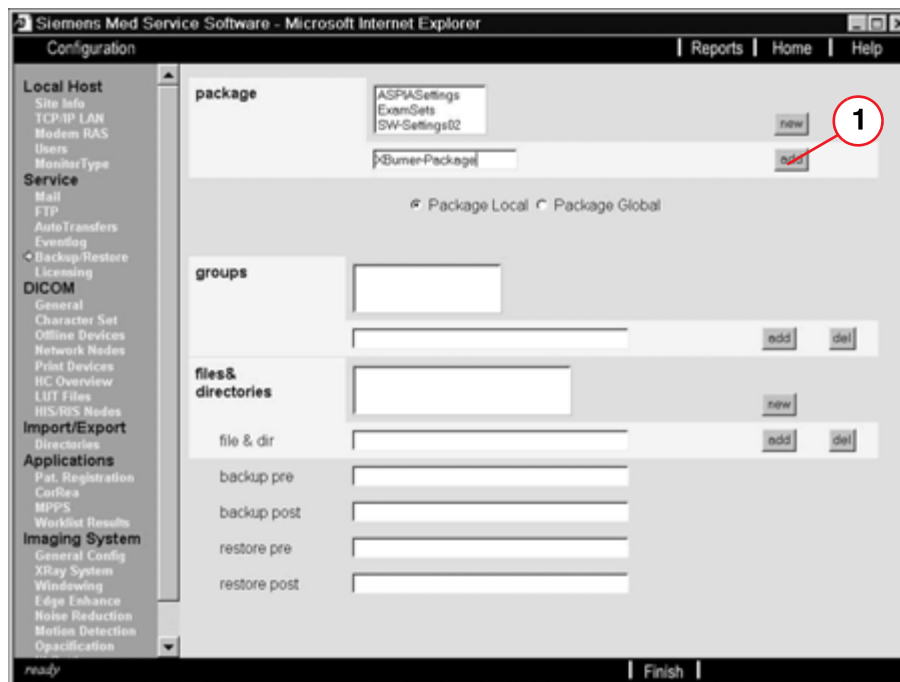


Fig. 116: Service_Backup/Restore_XBurner package

Pos. 1 Button

- Enter "Service files" under "Groups" and accept this entry by clicking on the "Add" button (1/ Fig. 117 / p. 125).

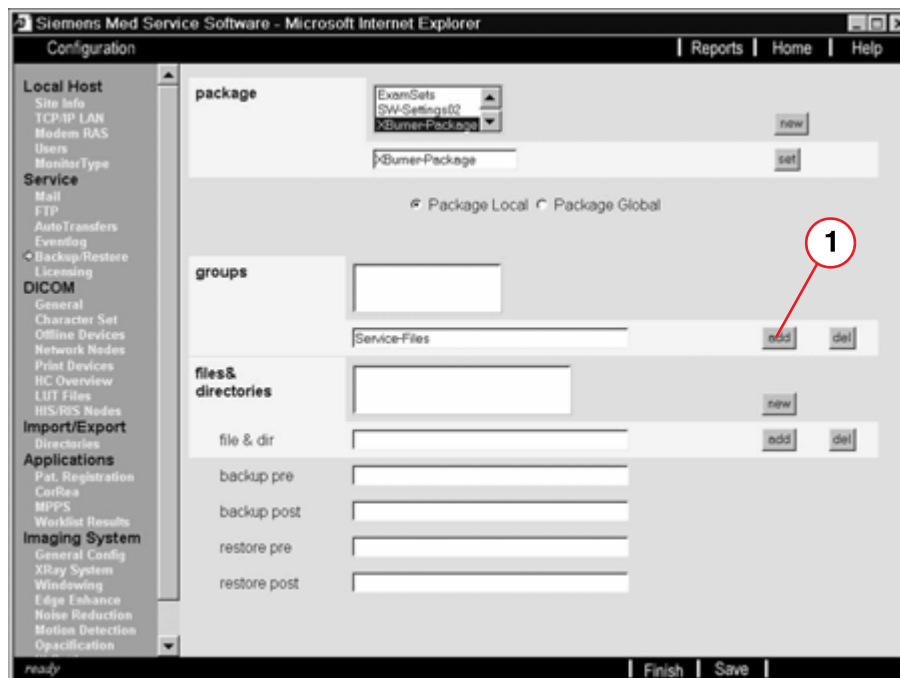


Fig. 117: Service_Backup/Restore_Groups_Service files

Pos. 1 Button

- Enter "C:\Aspia\log" under "file & dir" and accept this entry by clicking on the "Add" button (1/ Fig. 118 / p. 126).

- Enter "C:\Aspia\service\html\gfx" under "file & dir" and accept this entry by clicking on the "Add" button.
- Enter "C:\Aspia\service\html\report" under "file & dir" and accept this entry by clicking on the "Add" button.
- Enter "C:\Aspia\Service\extract" under "file & dir" and accept this entry by clicking on the "Add" button.

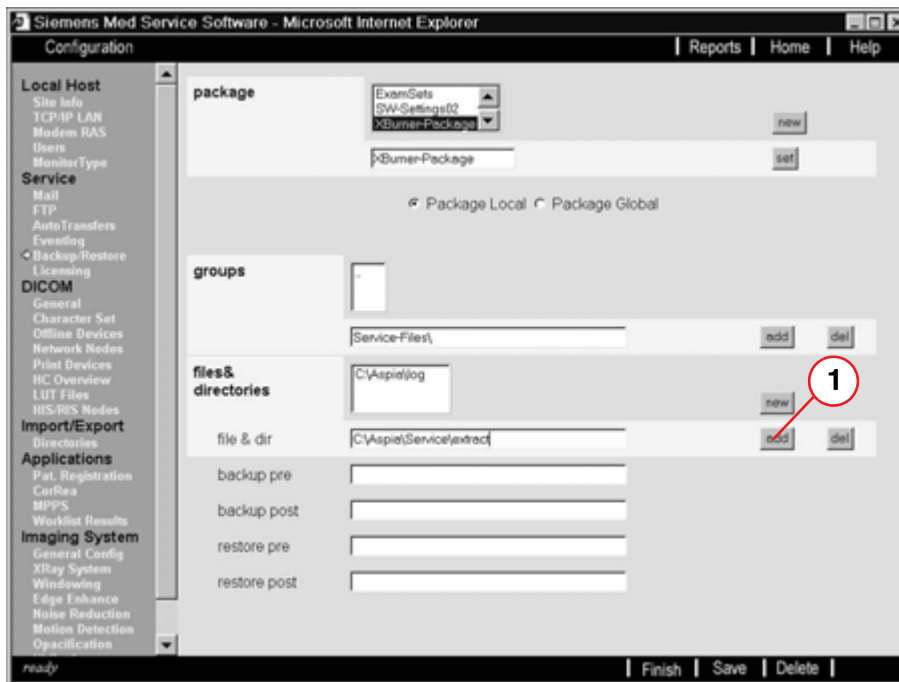


Fig. 118: Service_Backup/Restore_file & dir

Pos. 1 Button

- Select "Save".
- Select "Home".

Package local/package global

This option allows you to call up an additional menu in which the properties for the package selected above can be specified.

NOTE

Changes are not allowed here.

Package

A name for the new backup package can be entered here.

Groups

Define a new group for the package selected above by entering a name in the text field and clicking on "Add". Alternatively, you can select an existing group from the list field.

Files&directories

File(s) and directory(ies) must be entered for the selected group of the selected package.

File & dir

Enter a name in the text field and click on "Add" to designate a new file or a new directory for backup.

Delete a file or directory by selecting it from the list field and clicking the "Del" button.

Backup pre

Use "Add" or "Del" to add or delete a procedure command to be performed prior to backup of the appropriate file.

Backup post

Use "Add" or "Del" to add or delete a procedure command to be performed after backup of the appropriate file.

Restore pre

Use "Add" or "Del" to add or delete a procedure command to be performed prior to restore of the appropriate file.

Restore post

Use "Add" or "Del" to add or delete a procedure command to be performed after restore of the appropriate file.

Global package

The following description pertains to the "Global package" mask.

Command before backup package

A procedure command to be performed before backup can be entered here.

Alert before backup package

A text to be displayed in a window before backup can be entered here.

Command after backup package

A procedure command to be performed after backup can be entered here.

Alert after backup package

A text to be displayed in a window after backup can be entered here.

Command before restore package

A procedure command to be performed before restore can be entered here.

Alert before restore package

A text to be displayed in a window before restore can be entered here.

Command after restore package

A procedure command to be performed after restore can be entered here.

Alert after restore package

A text to be displayed in a window after restore can be entered here.

Count archives

The number of backups to be saved can be entered here. If 3 is entered, the last 3 back-ups will be stored and the fourth will be deleted.

Checking the offline devices

NOTE

The offline devices only need to be checked during a computer change from PC type Celsius 420 to Celsius 420/444/M410.

The 2 CD-ROM drives in PC type Celsius 420 may result in confusion as to which of the two drives is used for archiving.

Workflow for PC types Celsius 444/M410

- Check the software configuration on the basis of the following parameters listed in the table. If these values do not match the values in the table, proceed with the following workflow.

Parameters	Value
Logical name	CD-RW
	Archive device
Access	READ/WRITE
Recording speed	8
Drive letter	R

- Delete all devices defined under "Select logical name" when the on-site PC type is 420 and proceed as described below.
- Enter "CD-RW" under "Logical name".
 - The logical name is displayed in the user interface in the patient browser or viewer under "Transfer/Import-Export To."
- Select "Archive device" if the CD-RW is being used as the archive.
 - When you set "Archive device", all images stored on the corresponding device are marked with the archive flag on the data browser in the user interface.

Drive type

- Select "CD-RW drive".
- Select "READ/WRITE" under Access.
- Select "8" under Recording speed.

Drive letter

- Select "R:\".
- Select "Save".
- Select "Next".

Workflow for PC type Celsius 420

- Check the software configuration on the basis of the following parameters listed in the table. If these values do not match the values in the table, proceed with the following workflow.

Tab. 4 1. Drive 1

Parameters	Value
Logical name	CD-RW
Archive device	if provided
Access	READ/WRITE
Recording speed	8
Drive letter	S

Tab. 5 2. Drive 2

Parameters	Value
Logical name	CD-RW
Archive device	Do not select.
Access	READ
Recording speed	8
Drive letter	R

- Delete all devices defined under "Select logical name" when the on-site PC type is 420 and proceed as described below.

Configure drive 1

- Enter "CD-RW" under "Logical name".
 - The logical name is displayed in the user interface in the patient browser or viewer under "Transfer/Import-Export To."
- Select "Archive device" if the CD-RW is being used as the archive.
 - When you set "Archive device", all images stored on the corresponding device are marked with the archive flag on the data browser in the user interface.

Drive type

- Select "CD-RW drive".
- Select "READ/WRITE" under Access.
- Select "8" under Recording speed.

Drive letter

- Select "S:\".
- Select "Save".

Configure drive 2

- Enter "CD-RW" under "Logical name".
 - The logical name is displayed in the user interface in the patient browser or viewer under "Transfer/Import-Export To."
- Do not select "Archive device" since the CD-RW drive cannot be used as the archive.

Drive type

- Select "CD-ROM drive".
- Select "READ" under Access.
- Select "8" under Recording speed.

Drive letter

- Select "R:\".
- Select "Save".
- Select "Next".

SPI file system

This option is not supported by UROSKOP Access.

Floppy

This option is not supported by UROSKOP Access.

SCSI settings

Do not make any changes for UROSKOP Access.

- Select "Home" in the header bar of the screen.
 - Confirm the pop-up window by clicking on "OK".

Checking the import/export directories

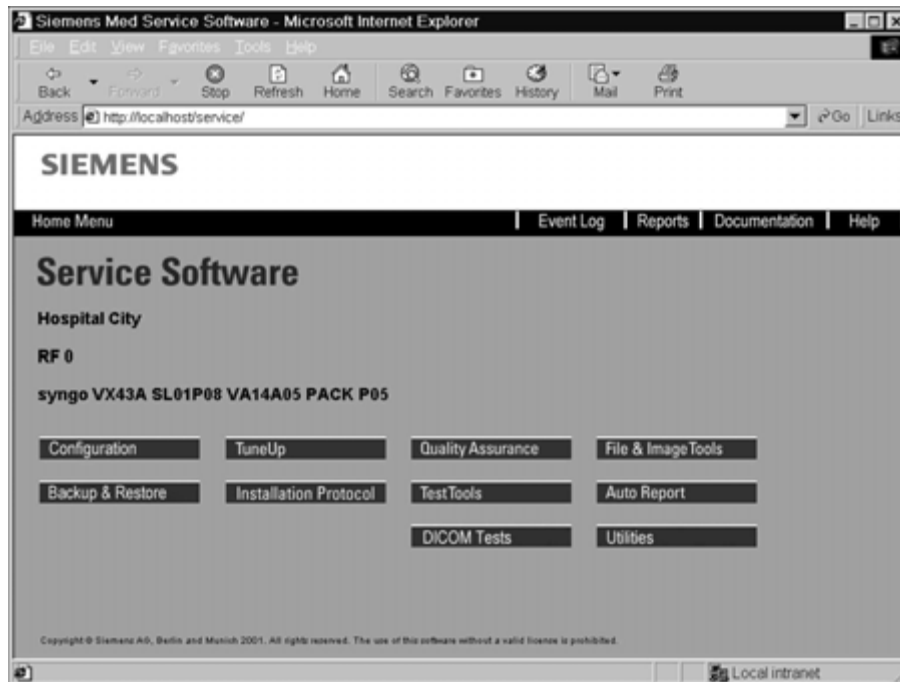


Fig. 119: Home menu

- Select "Configuration" in the Service software home menu.
 - The "Configuration" menu is displayed.

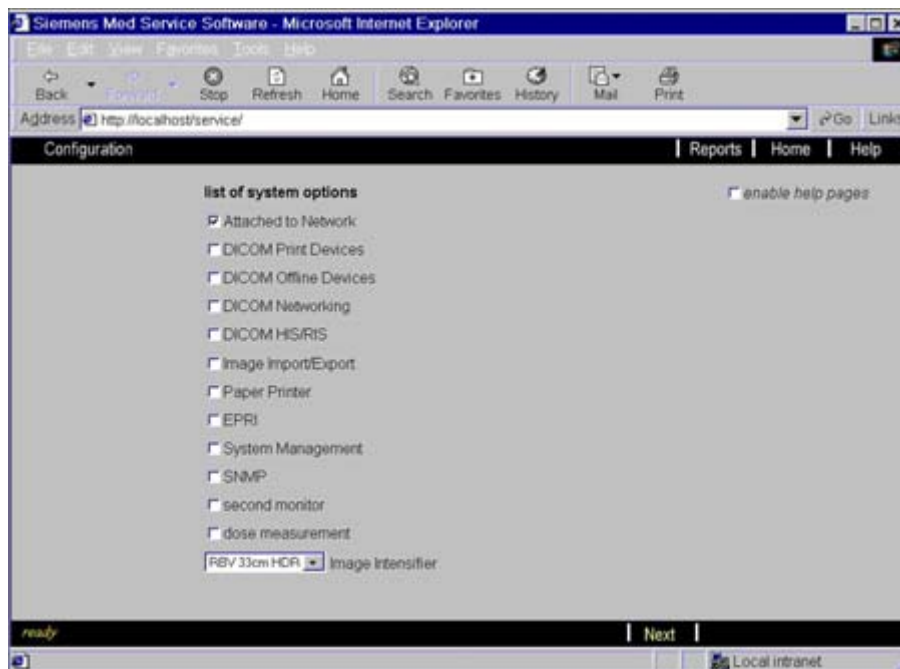


Fig. 120: Configuration

- Select "Next".
- Select "Directories" under Import/Export.



Fig. 121: Configuration_Import/Export_Directories_Logical HD device

- Select "LOCAL" under "Select logical HD device".
 - "LOCAL" must be listed under "Logical name" and "C:\temp" must be listed under Path. If this is not the case, enter these designations.
- Select "DICOM_Tools" under "Select logical HD device".
 - "DICOM_Tools" must be listed under "Logical name" and "C:\Aspia\service\dst\img" must be listed under Path. If this is not the case, enter these designations as described below.

Entering the directory path

- Select "Define new" under "Select logical HD device".
- Enter "DICOM_Tools" under Logical name.
 - The logical name is displayed in the customer user interface under "Transfer - Off-line - Export/Import".
- Select drive letter "C:\" under Drive.
- Select "ASPIA", "Service", "dst" and "img" under Path.
- Select "Save".

NOTE

This concludes the "Supplementary Configuration" chapter.

NOTE

The "Siemens Remote Service" chapter should only be used if the UROSKOP Access system already has a remote connection or this is provided for configuration.

Access option

A router connection is tested and approved for the UROSKOP Access system.

The UROSKOP Access imaging system can be remotely accessed.

It is not possible to access the generator and the basic device.

In the UROSKOP Access system, remote access accesses the "Service software home menu screen".

All items not requiring insertion of a floppy disk or a CD-ROM can be called up from this screen.

Radiation can only be initiated on-site.

Even in the "Full access mode", radiation for testing purposes can be initiated on-site.

Event log memory

The imaging system messages and also the messages from the generator and basic device are displayed in the event log memory of the UROSKOP Access imaging system.

Some brief descriptions regarding the individual messages are available.

NOTE

- **Steps to be performed are preceded by a bullet point.**
 - **Text indented below a step provides general information.**

Installation of Siemens Remote Service

- Install the Siemens Remote Service on the basis of the "Installation of Siemens Remote Services (SRS)" document with print number SP00-000.816.02
- Proceed with "Event log" in ([Syngo Configuration / p. 35](#)).

Additional available documentation

- The following documents are available in the CS intranet under Interesting links/SRS connectivity toolkit:
 - Siemens Remote Service Project Planning Basis
 - Siemens Remote Service Final Configuration Checklist
 - Router HW installation for RDIAG routers delivered by Siemens

Available tools

The complete Siemens remote connectivity process from Marketing to the project manager, the CSE, and headquarters is presented in the intranet as the Siemens Remote Service Toolkit under www.cs.med.siemens.de/srstoolkit.

NOTE

This concludes the "Siemens Remote Service" chapter.

"Edge enhancement filter 3" activation

NOTE

Edge enhancement filter 3 is used for edge enhancement. This makes the finest bone structures visible, for example.

- Select "Local service" in the UI.
- Select "Utilities" in the Home menu.
- Select "Escape to OS" under Source.

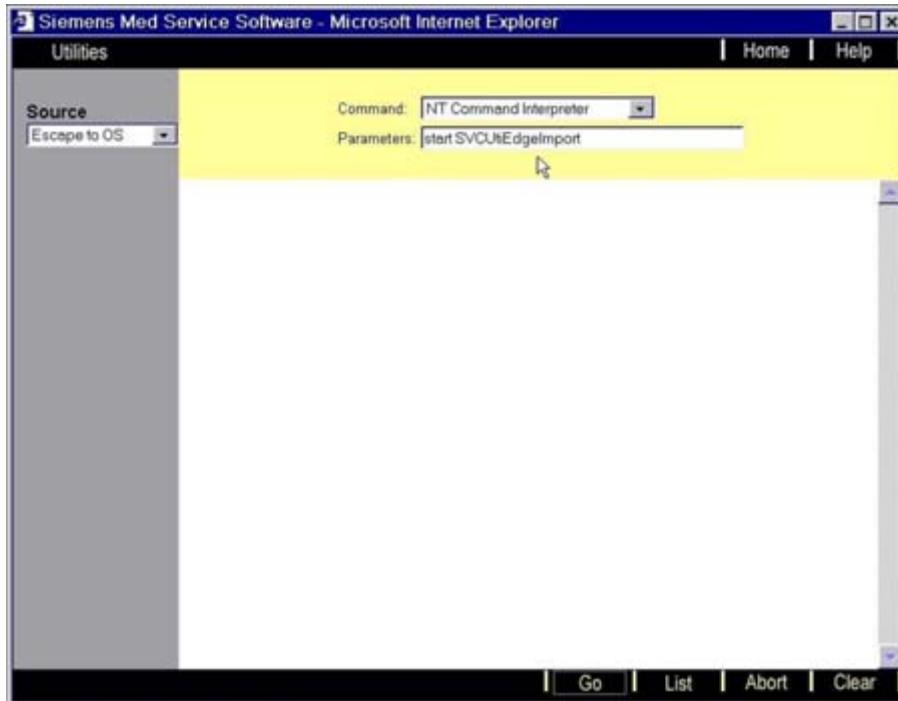


Fig. 122: Utilities_Source

- Check that "NT command interpreter" is selected under Command.

NOTE

Be aware of the space between start and SVCU when subsequently entering "start SVCUtiEdgeImport".

- Under Parameters enter: start SVCUtiEdgeImport.
- Select "Go".

The following window is displayed:



Fig. 123: Update_Edge import

NOTE

Ignore error messages appearing in a red font in the window above.

"EdgeU3_Base_1k.flt" is selected

If "EdgeU3_Base_1k.flt" is selected under "Active 1k kernel", proceed as described below:

- Under Please select: enter "q".
 - The window displayed is automatically closed.
- Select "Home" in the Service menu.
- Close the "Service Home menu."
- Switch the UROSKOP Access system completely off.
 - Wait until the UROSKOP system has completely shut down.

"Edge U3_Base_1k.flt" is not selected

If "EdgeU3_Base_1k.flt" is not selected under "Active 1k kernel", proceed as described below:

- Under Please select: enter "1".

- The following window is displayed:



Fig. 124: Update_Edge import

- Under Please select: enter "3".
The following window is displayed:

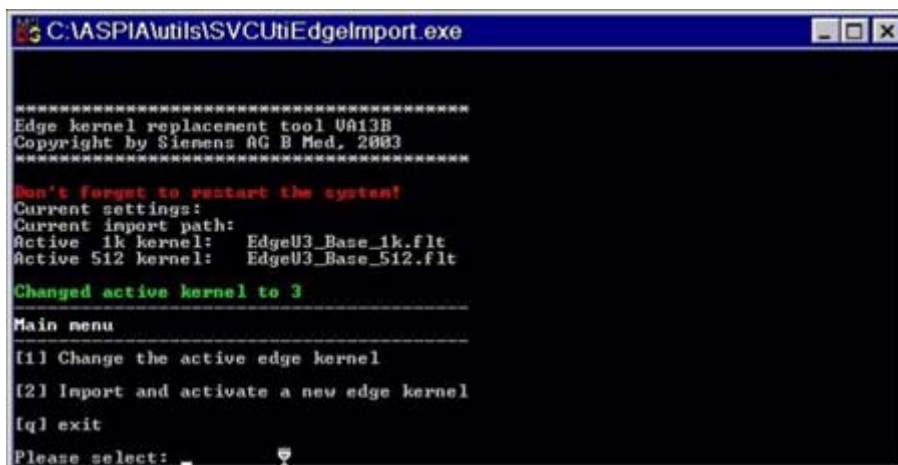


Fig. 125: Update_Edge import

- Under Please select: enter "q".
 - The window displayed is automatically closed.
- Select "Home" in the Service menu.
- Close the "Service Home menu."
- Switch the UROSKOP Access system completely off.
 - Wait until the UROSKOP Access system has completely shut down.
- Switch the UROSKOP Access system back on.

NOTE

This concludes the "Edge Enhancement Filter 3 Activation" sub-chapter.

Importing test images

- Select "Patient" in the user interface.

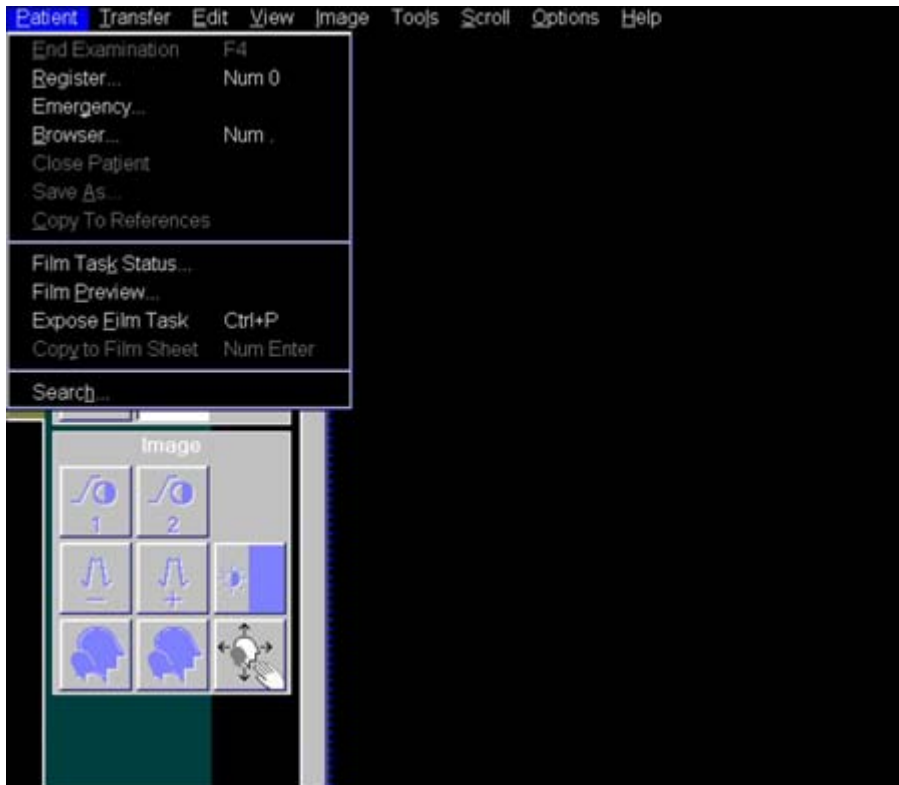


Fig. 126: User interface_Patient

- Select "Browser".



Fig. 127: Patient browser

- Check whether a CD-ROM is displayed
 - If a CD-ROM is not displayed, it must be activated as described in the installation instructions.
- Call up the "Service Software Home menu".
- Enter the service key.



Fig. 128: Patient browser/Home menu

- Call up the "Patient browser" in the user interface.
- Minimize the "Service Software Home menu" window.
- Insert the "UROSKOP Access test images" CD into the drive.

- Select "CD-RW_xx."

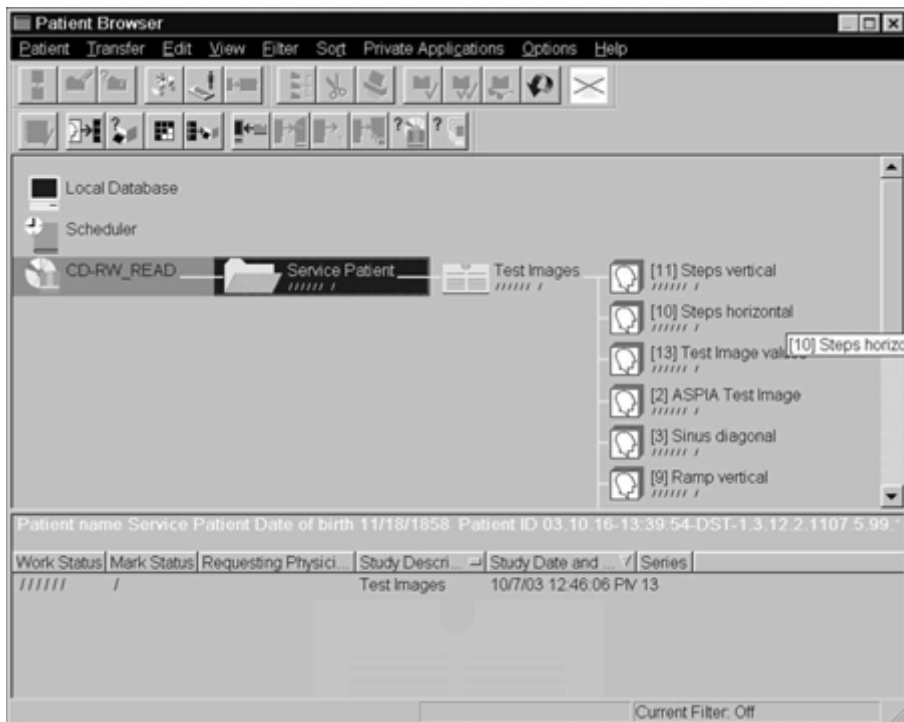


Fig. 129: Patient browser_CD_RW_READ

- Select "Service patient."
- Select "Transfer" in the patient browser.
- Select "Import".
 - The files are imported.
- After approx. 1 minute, select "Local database."
 - Two service patients should now be displayed here.

NOTE

The two service patients under Local database can be displayed remotely so that these two patients are not present at first glance .

- Delete the service patient without the subcatalog (= without images).
 - For this purpose, select "Service patient", right-click, and select "Delete".

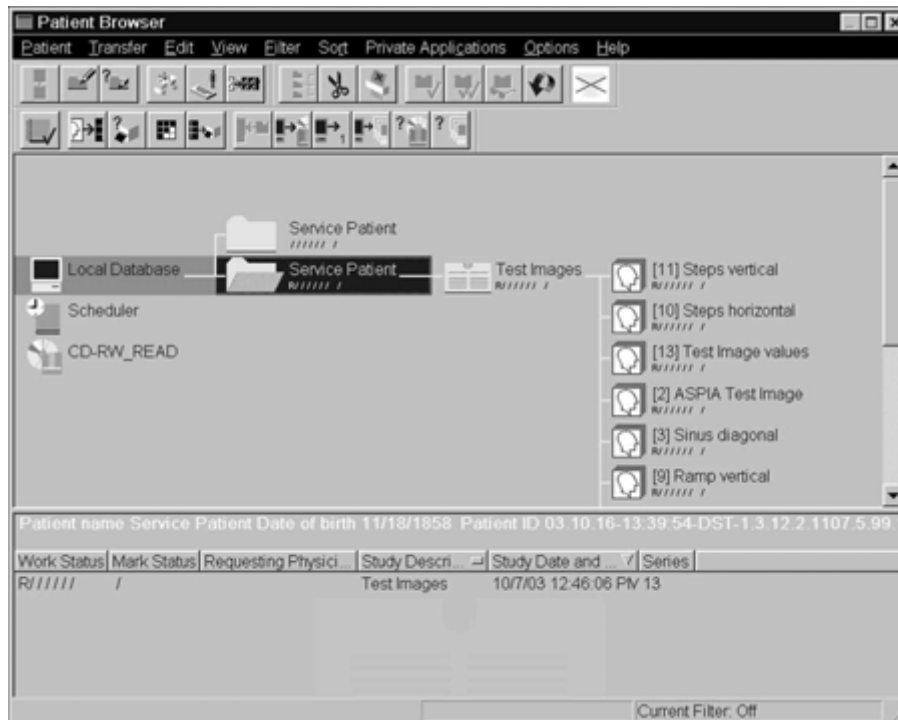


Fig. 130: Patient browser_Local database

- Close the "Service Software Home menu."
- After approx. 20 seconds, check that a service patient is no longer listed under Local database.

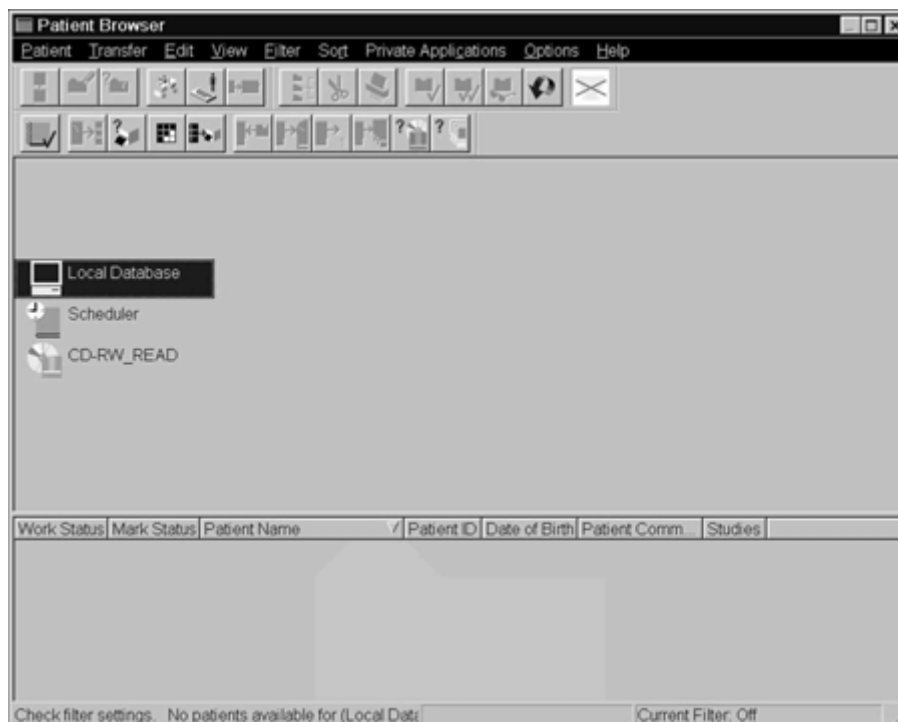


Fig. 131: Patient browser_Local database

- Select "Local service" in the UI under Options.
- Enter the service key.
- Minimize the "Service Software Home menu".

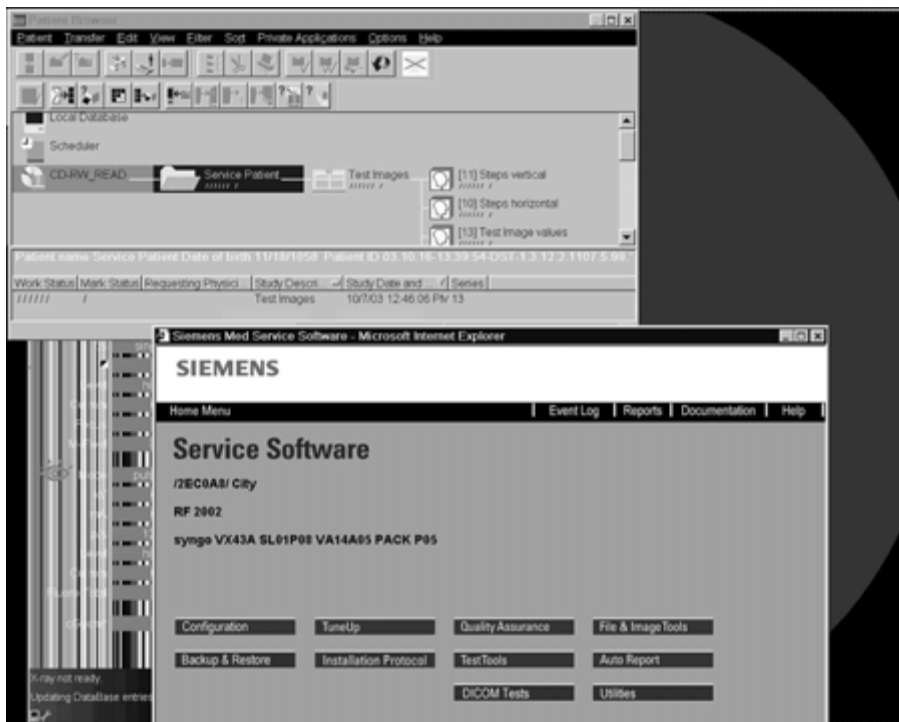


Fig. 132: Patient browser/Home menu

- Select "Patient list".
- Select "Local database".



Fig. 133: Patient browser_Local database

- Select "Service patient."
 - "Test images" is displayed.

- Select "Test images".
 - Test images are displayed.
- Select "Viewer task card".
- Select the "Sinus diagonal" test image and drag it into the viewer.
 - The test image is displayed.



Fig. 134: Service patient_Test image

NOTE

The service patient and corresponding images are shown in the patient browser only when the "Service Software Home menu" is open.

The test image remains visible in the viewer until the service patient is closed. This image can only be called up again via an active Service menu.

- Close "Service software".

NOTE

This concludes the "Importing Test Images" subchapter.

Importing IQ test images

- Insert the "IQ test images" CD into the CD-ROM drive.
- Select the CD-ROM in the patient browser.
 - The IQ test images are displayed.

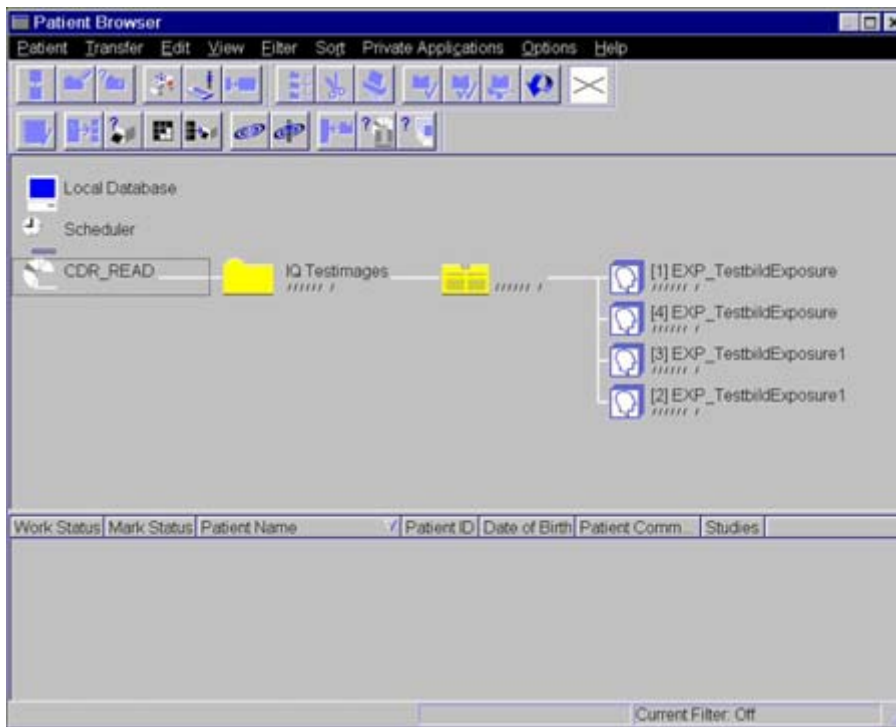


Fig. 135: IQ test images

- Select "IQ test images."
- Select "Import" under Transfer.
 - The images are stored in the local database.

- Select "Local database".

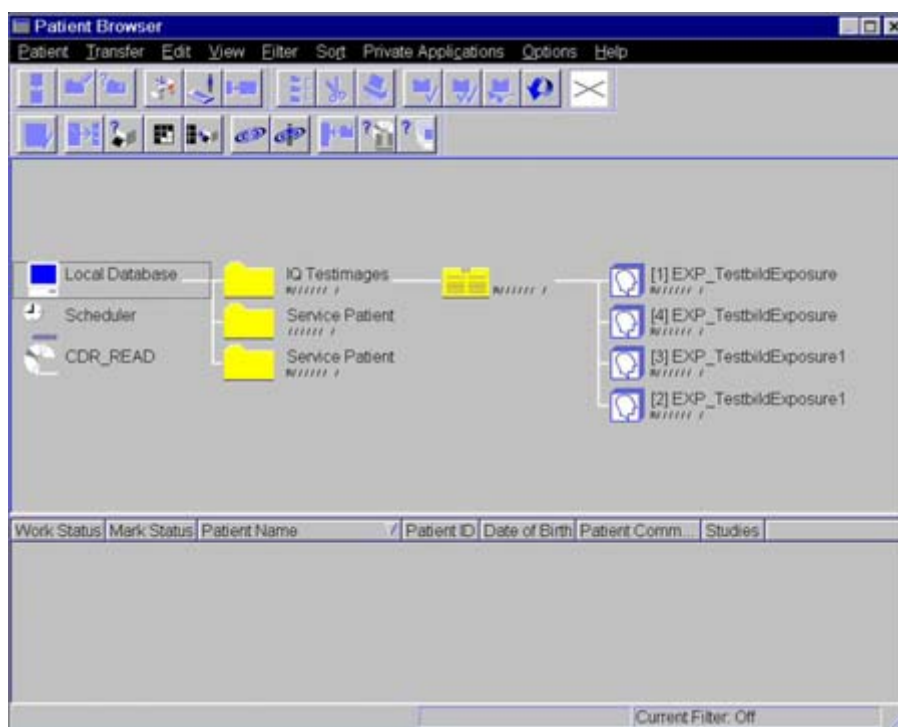


Fig. 136: Patient browser_Local database_IQ test images

- Check whether the IQ test images are located in the patient browser.

This concludes the import of the IQ test images.

The IQ test images are also visible when the Service Software menu is not active and can be loaded into the viewer.

NOTE

This concludes the "Importing IQ test images" subchapter.

Cassette detection

In order for the UROSKOP Access imaging system to be able to detect whether a cassette is installed, the examination sets must be called up once more following an initial installation and then closed again.

- Select "Option"

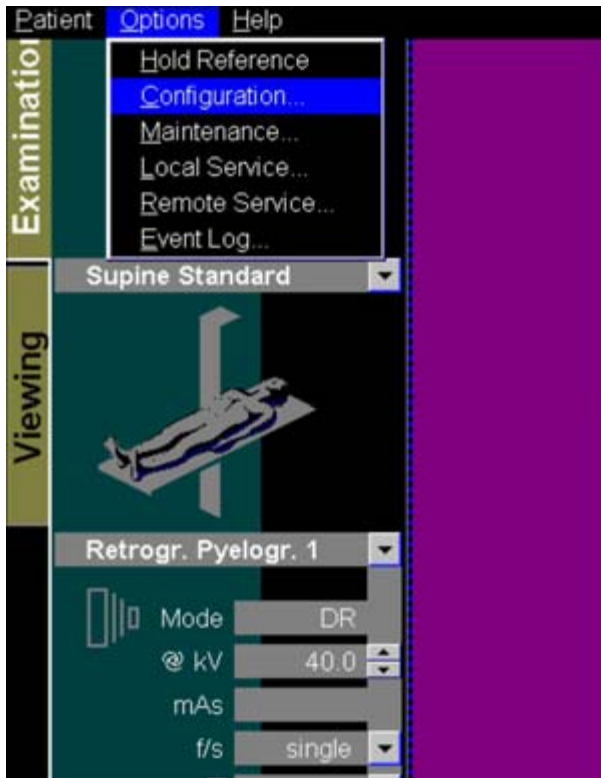


Fig. 137: Options_Configuration

- Select "Configuration".

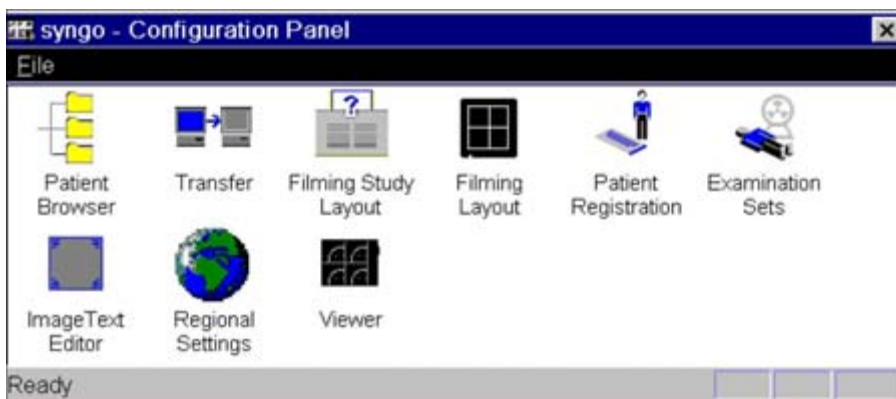


Fig. 138: Configuration panel

- Select "Examination sets".

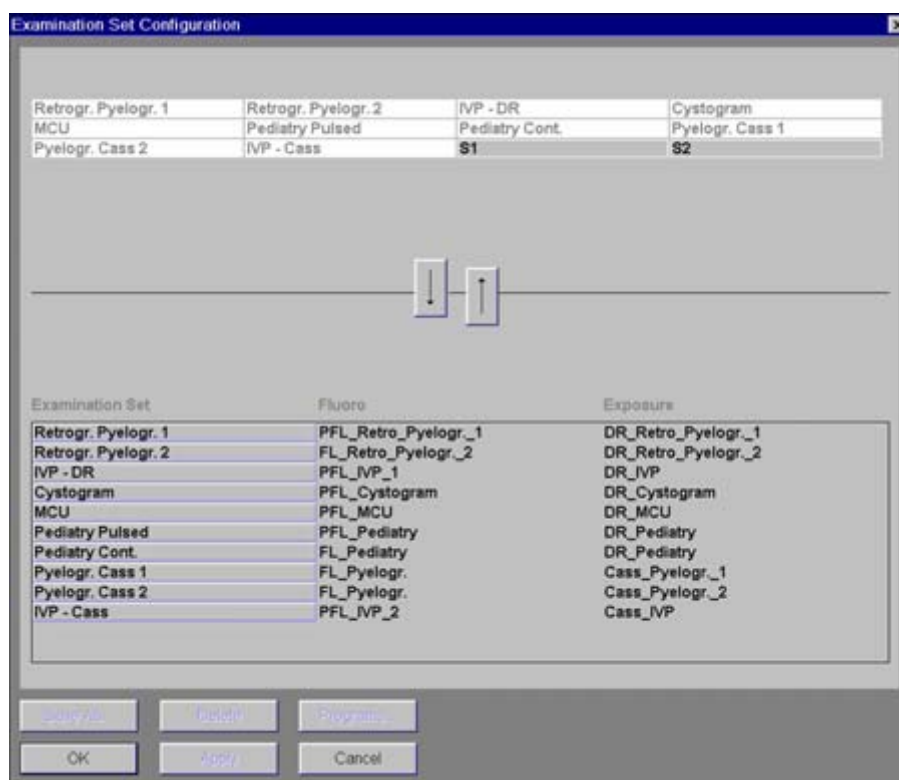


Fig. 139: Examination set configuration

- Select "OK".
- Close the syngo configuration panel.
- Completely switch off UROSKOP Access at the control panel.

NOTE

This concludes the "Cassette Detection" subchapter as well as the "Edge Kernel/Test Images" chapter.

NOTE

If a restore has not yet been performed, skip this chapter.

NOTE

To provide a better overview, a summary of the user programs to be configured here is provided in the form of a table at the end of the chapter.

NOTE

The two following user programs to be configured are to be designated as “Stone_Imaging_1” and “Stone_Imaging_2” in English-speaking regions.

In German-speaking regions the two programs are to be designated as “Steinerkennung_1” and “Steinerkennung_2”.

- Select "Configuration" in the UI under "Options".

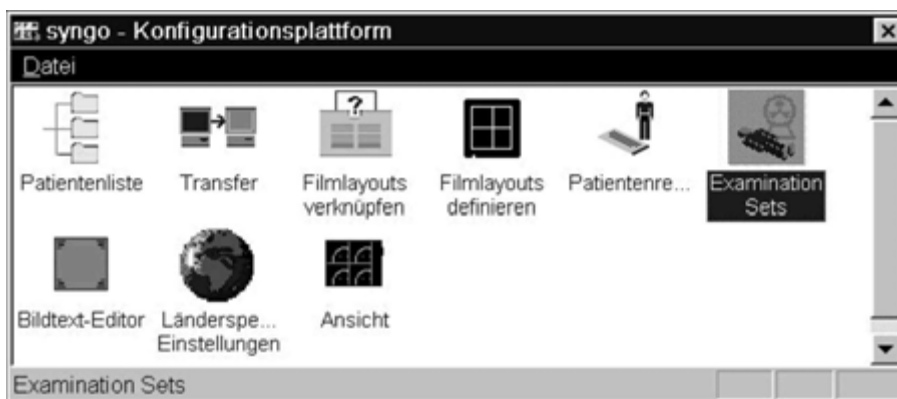


Fig. 140: Configuration platform

- Double-click on "Examination sets".
 - The "User program configuration" window is displayed.



Fig. 141: User program configuration

- Select "Retrogr. Pyelogr. 2" under User program and select the "Save as..." button.
 - A "Save as" pop-up window is displayed.
- Enter "Stone_Imaging_1" in the "Save as" window and confirm by clicking on "OK".

NOTE

"Stone_Imaging_1" must now be saved under User program.

- Select the "Programs" button.

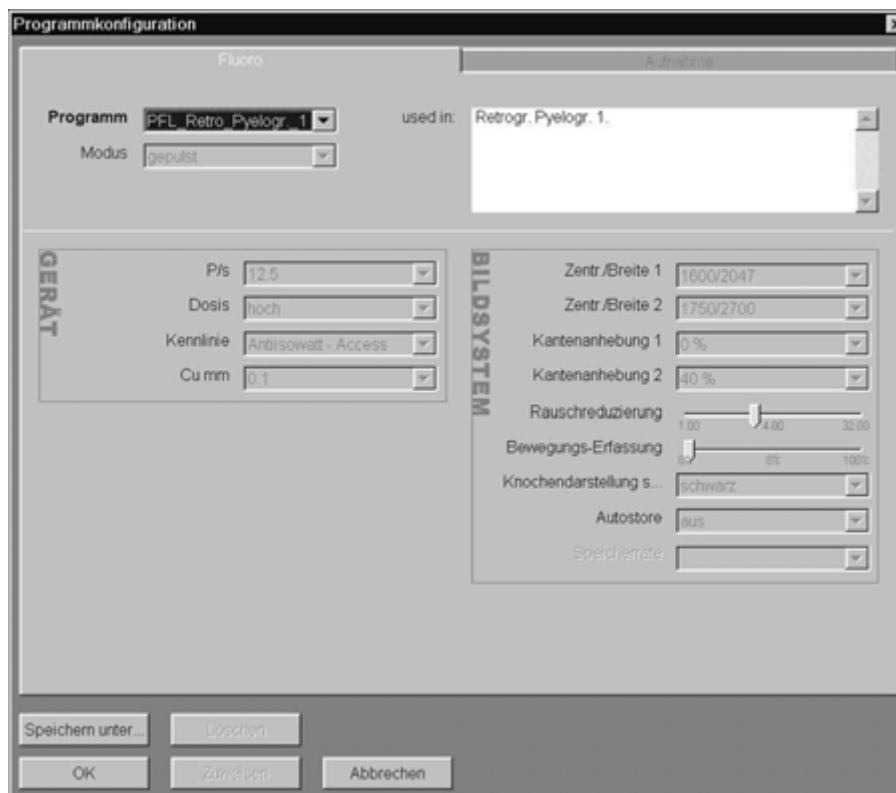


Fig. 142: Program configuration_Programs

- Select the "Save as..." button.
 - A "Save as" pop-up window is displayed.
- Enter "FL_Stone_Imaging_1" in the "Save as" window and confirm by clicking on "OK".
- Enter the individual set values for "FL_Stone_Imaging_1" according to the overview table at the end of the chapter and confirm the entries by clicking the "Assign" button.
- Change to the "Exposure" tab and select "Save as...".
 - A "Save as" pop-up window is displayed.
- Enter "DR_Stone_Imaging_1" in the "Save as" window and confirm by clicking on "OK".
- Enter the individual set values for "DR_Stone_Imaging_1" according to the overview table at the end of the chapter and confirm the entries by clicking the "Assign" button.

NOTE

Repeat the configuration steps performed for the "Stone_Imaging_1" user program for the "Stone_Imaging_2" program. The values to be defined can also be taken from the following tables.

- Following configuration of the two user programs, check whether the following user programs are displayed in the "User program configuration" window.
 - The sorting of the user programs may need to be adjusted.
 - The two user programs "Stone_Imaging_1" and "Stone_Imaging_2" or "Steinerkennung_1" and "Steinerkennung_2" (depending on the country) must be configured.



Fig. 143: Program configuration

Tab. 6 User program "Steinerkennung_1" (fluoro)

	Fluoro task card
Program	FL_Stone_Imaging_1 or FL_Steinerkennung_1
Mode	Continuous
P/s	n. a.
Dose level	High
Characteristic curve	Litho 63 kV HK
Cu mm	0.1
Center/width 1	1600/2047
Center/width 2	1750/2700
Edge enhancement 1	0%
Edge enhancement 2	40%

	Fluoro task card
Noise reduction	4 k
Motion detection	0%
Bone display	Black
Autostore	Off
Storage rate	n. a.

Tab. 7 User program "Steinerkennung_1" (exposure)

	Exposure task card
Program	DR_Stone_Imaging_1 or DR_Steinerkennung_1
Mode	DR
Technique	0-point
P/s	Single image
Max. scene length	n. a.
Derivation characteristic curve	C 73 - special
kV manual	n. a.
Exposure correction	0
Dose level	High
kV for dose reduction	102.0
Focus	Large
Tube load	80%
Cu mm	0.1
Center/width 1	1600/2047
Center/width 2	1750/2700
Edge enhancement 1	40%
Edge enhancement 2	0%
Bone display	Black
L/R flip	Off
I.I. zoom	Overview
M-field	Center

Tab. 8 User program "Steinerkennung_2" (fluoro)

	Fluoro task card
Program	PFL_Stone_Imaging_2 or PFL_Steinerkennung_2
Mode	Pulsed
P/s	12.5
Dose level	High
Characteristic curve	Pediatry
Cu mm	0.1
Center/width 1	1600/2047
Center/width 2	1750/2700
Edge enhancement 1	0%
Edge enhancement 2	40%
Noise reduction	4 k
Motion detection	0%
Bone display	Black
Autostore	Off
Storage rate	n. a.

Tab. 9 User program "Steinerkennung_2" (exposure)

	Exposure task card
Program	DR_Stone_Imaging_2 or DR_Steinerkennung_2
Mode	DR
Technique	0-point
P/s	Single image
Max. scene length	n. a.
Derivation characteristic curve	C 73 - special
kV manual	n. a.
Exposure correction	0
Dose level	High
kV for dose reduction	102.0
Focus	Small

	Exposure task card
Tube load	80%
Cu mm	0.1
Center/width 1	1600/2047
Center/width 2	1750/2700
Edge enhancement 1	40%
Edge enhancement 2	0%
Bone display	Black
L/R flip	Off
I.I. zoom	Overview
M-field	Center

NOTE

This concludes the "User Program Installation" chapter.

- Select "Configuration" in the UI under Options if not already selected.

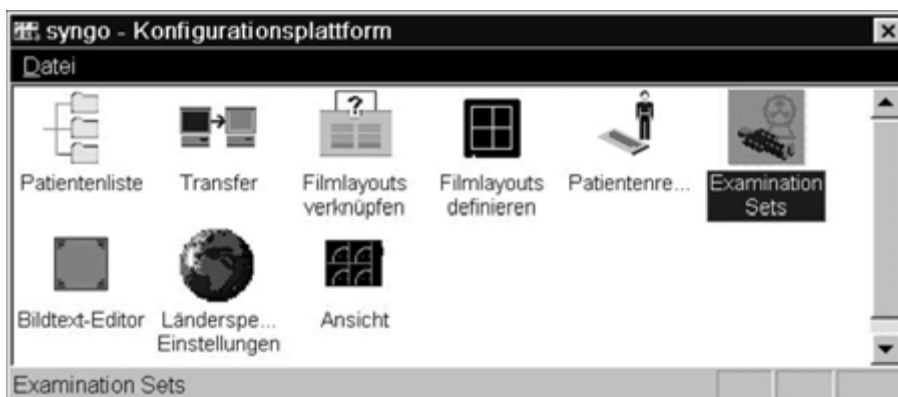


Fig. 144: Configuration platform

- Double-click on "Examination sets".
 - The "User program configuration" window is displayed.



Fig. 145: User program configuration

- Select "Retrogr. Pyelogr. 1" under User program and select the "Programs" button.

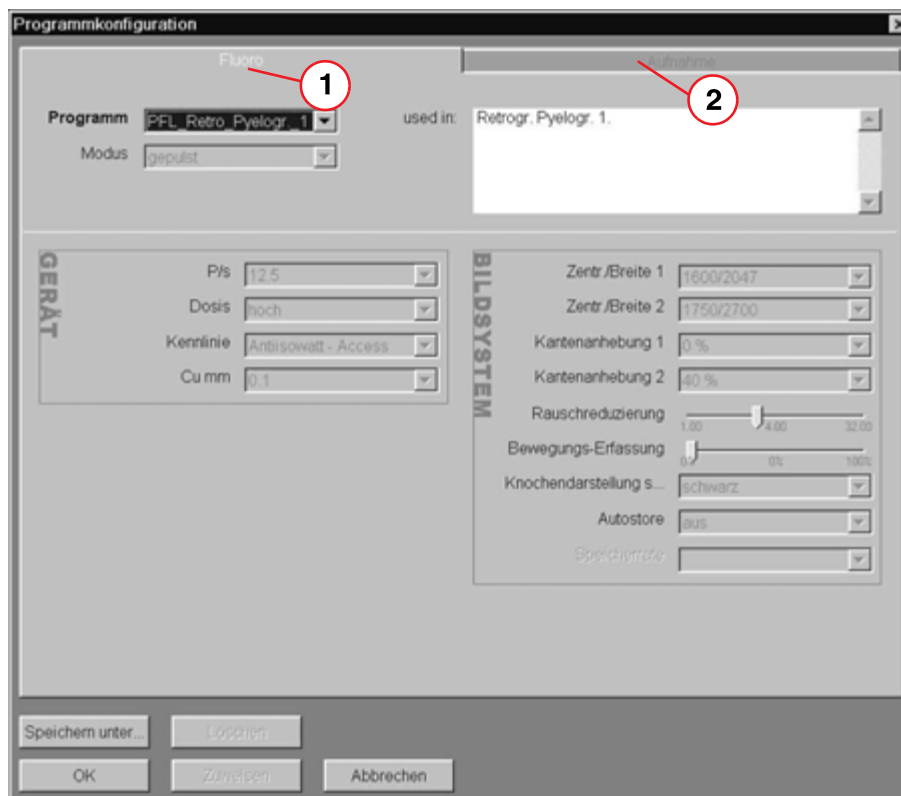


Fig. 146: Program configuration

Pos. 1 Fluoro task card

Pos. 2 Exposure task card

- Check whether different values are entered in the Fluoro task card (1/Fig. 146 / p. 156) under Imaging system "Center/width 1" and "Center/width 2". The same applies for "Edge enhancement 1" and "Edge enhancement 2".
- Check whether different values are entered in the Exposure task card (2/Fig. 146 / p. 156) under Imaging system "Center/width 1" and "Center/width 2". The same applies for "Edge enhancement 1" and "Edge enhancement 2". "C 0" must not be entered as the transfer characteristic under "Device".

NOTE

If, in accordance with the review steps listed above, different values were able to be specified in the parameters "Center/width 1", "Center/width 2", "Edge enhancement 1", and "Edge enhancement 2", and no C 0 characteristic was specified, the installation was successful.

- Close all windows.
- Perform a subsequent general functional check of the UROSKOP Access system (activate DR/fluoro, etc).
- Switch the UROSKOP Access system off and back on again at the control panel.

NOTE

This concludes the "Checking the Installation Process" chapter.

Backup

General information

System-specific tables and customer-specific configuration data must be backed up following every software update and system adjustment.

UROSKOP Access imaging system software versions

- Check the configuration of the "correction LUT" under "XRFImage" as well as of the "Interpolation for printing" menu item according to the "syngo Configuration" chapter (set values "Bilinear", "xrf_16bin" and "xrfCorr16b-bspline").
- Select "Local service" under Options.

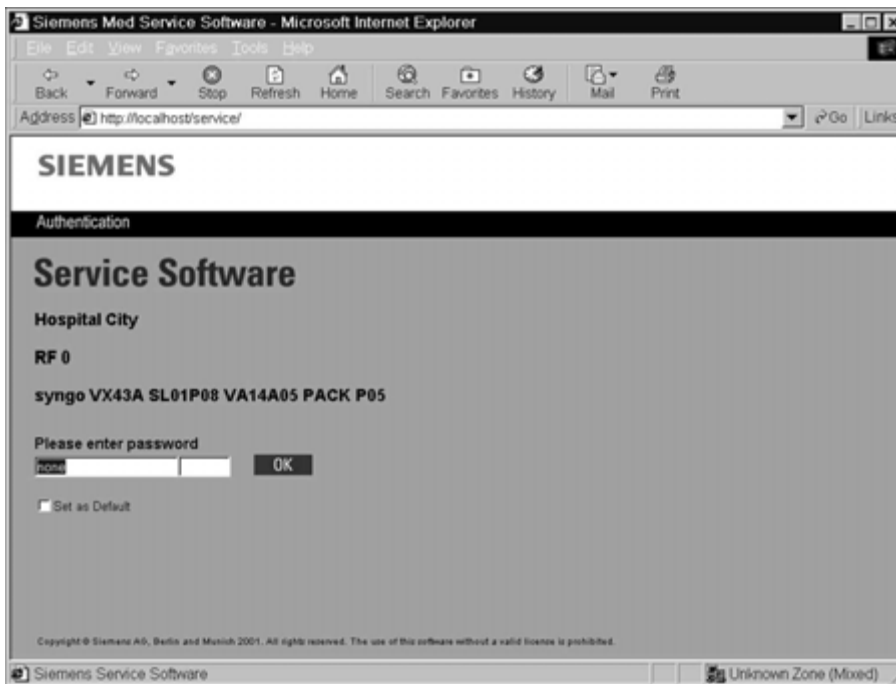


Fig. 147: Authentication

- Enter the service key.

- Confirm by clicking on "OK".
 - The Service Home menu is displayed.

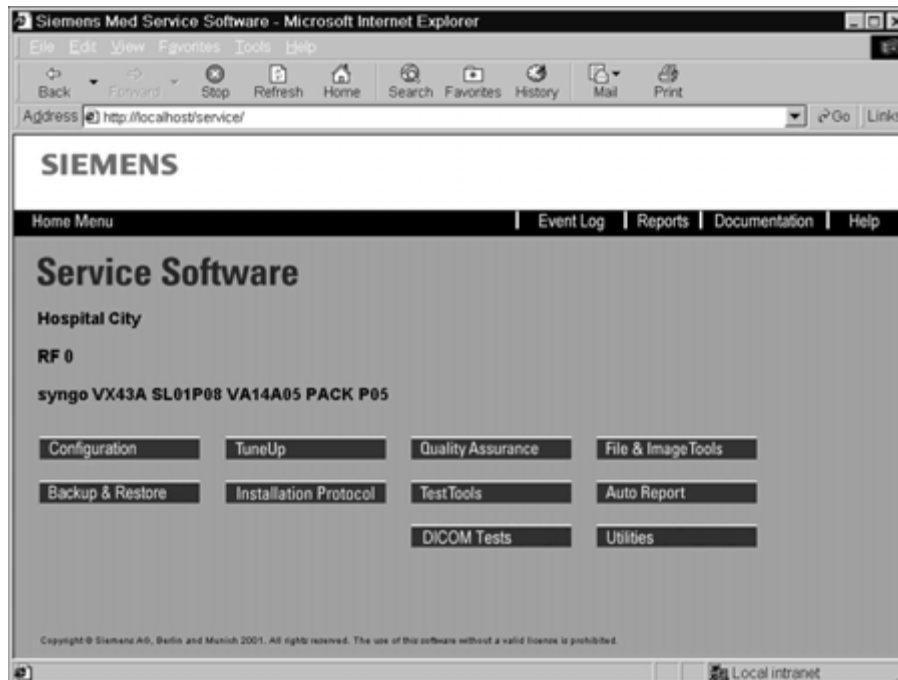


Fig. 148: Home menu

- Select "Backup & Restore".
- Insert the BACKUP CD in the CD-ROM drive depending on the available storage medium.
 - The following window is displayed:



Fig. 149: Backup & Restore_Command

- Select "Backup" under Command
 - The following window is displayed:

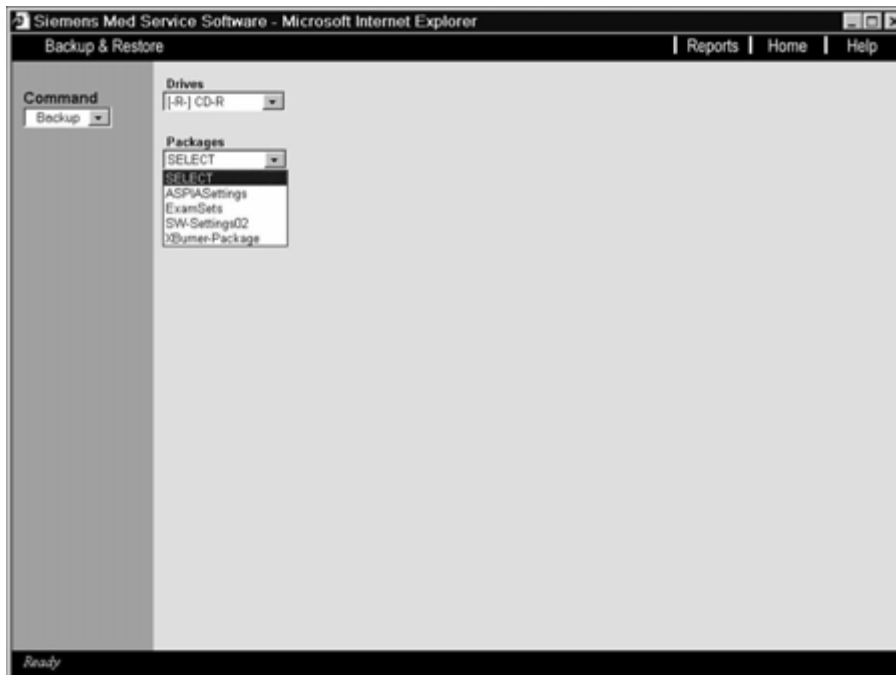


Fig. 150: Backup & Restore_Command

- Select the appropriate storage medium under "Drives".
 - Save in the standard manner to a CD-ROM.
- Select "SW-Settings02" under Packages
- Click on "Go".
 - Wait until the "Ready" message appears in the footer bar.
- Select "ASPIASettings" under Packages.
- Click on "Go".
 - Wait until the "Ready" message appears in the footer bar.
- Select "ExamSets" under Packages.
- Click on "Go".
 - Wait until the "Ready" message appears in the footer bar.
- Close the window by clicking on "Home"
- Remove the backup CD-ROM

NOTE

If changes are later made to the configuration, the corresponding backup package must be saved again.

NOTE

Check whether the network connection of the UROSKOP Access system has been reestablished if necessary.

NOTE

It is not possible to back up the database (patient images)! Instead, save backup copies of the patient images on CD-R, MOD, etc.

NOTE

This concludes the "Backup" chapter.

If backup was performed following completion of the installation of imaging system software VA14A, this concludes installation and the UROSKOP Access system is ready for operation.

This chapter describes how to test the imaging chain from the imaging system PC to the camera and from the imaging system PC to the monitors.

NOTE

After completing this test, it is necessary to switch the UROSKOP Access system off and back on. Otherwise, only a gray wedge will be displayed during radiation.

- Select "Local service" under Options.

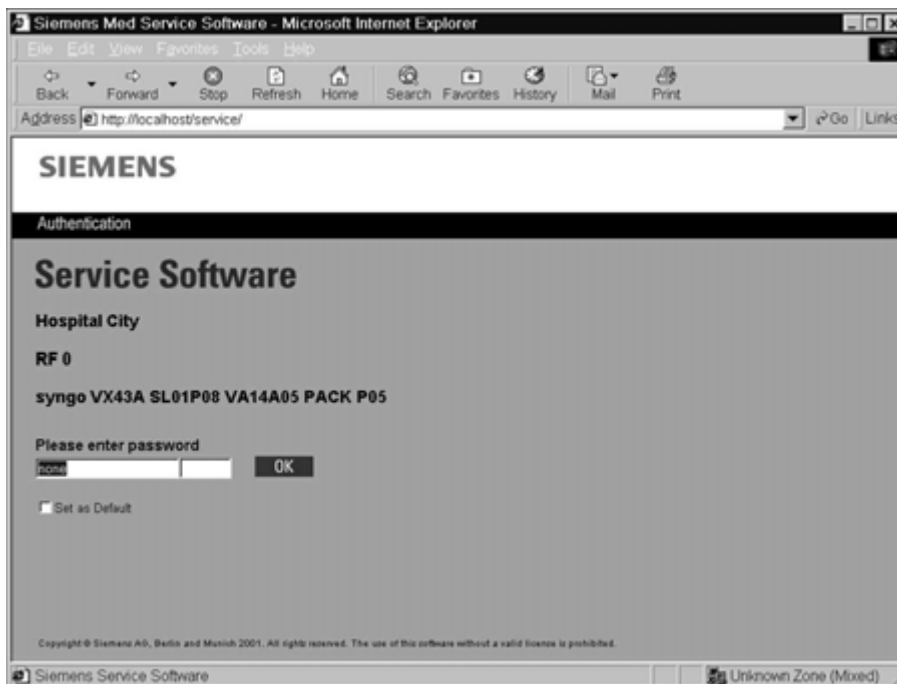


Fig. 151: Authentication

- Enter the service key.
- Confirm by clicking on "OK".

- Select "TestTools".

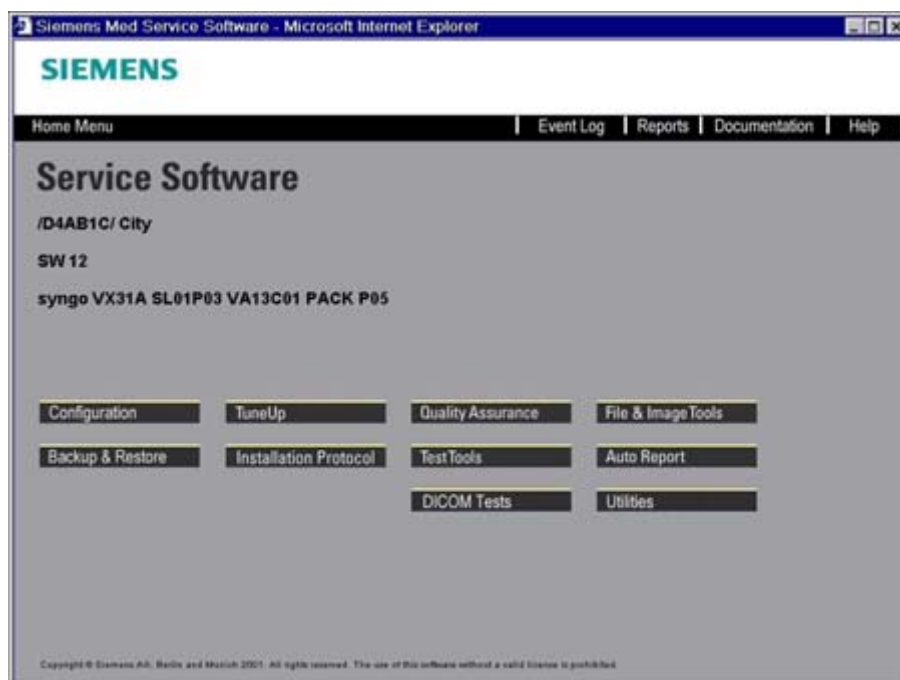


Fig. 152: Home menu_TestTools

Check the connection between the imaging system PC and camera



Fig. 153: TestTools

- Select "Camera connection".



Fig. 154: TestTools_Camera connection

- Click on ">".

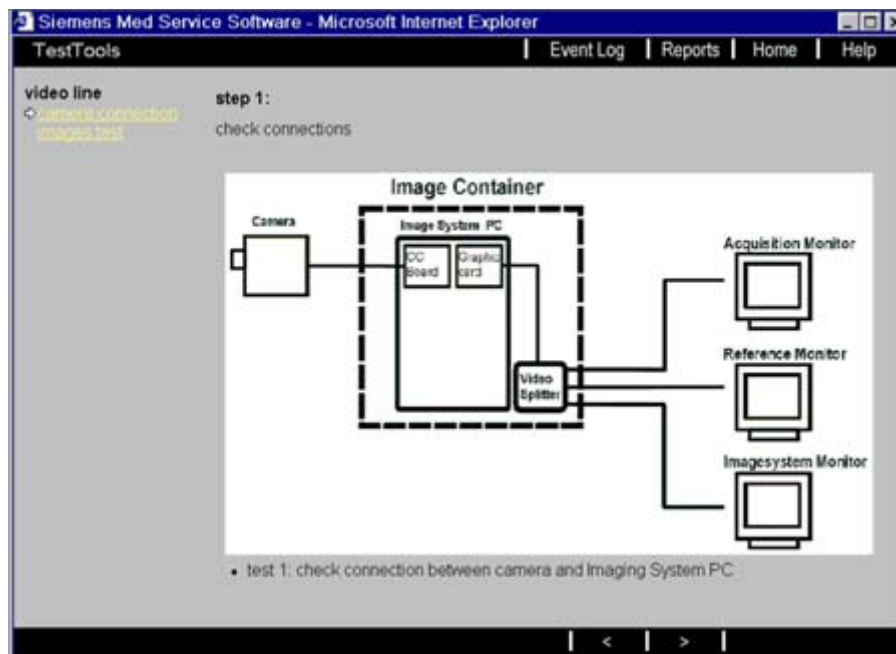


Fig. 155: TestTools_Camera connection_1

- Click on ">".



Fig. 156: TestTools_Connection tests

Connection tests

- Select one of the following tests:
 - "Single test sequence":
 - Runs "connection tests" once.

- "Multiple tests until first failure":
Runs "connection tests" until the first error occurs.
- "Multiple tests until first OK":
Runs "connection tests" until the connection is OK.

Video camera

- Select "Camera connection".
 - The respective action is displayed under "State".
 - The result is displayed under "Result".
- Click on the book with the question mark for more information.

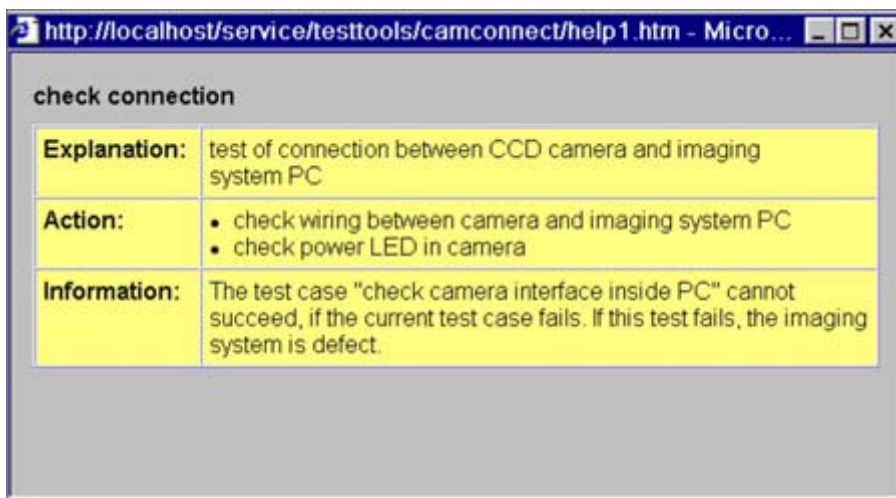


Fig. 157: TestTools_Camera connection_Help

- Click on "Go" to start the test.
 - The test results are displayed under "State" and "Result". If you run one of the "multiple" tests, the following message is displayed, for example:



Fig. 158: Message

Check the connection between the imaging system PC and the monitors

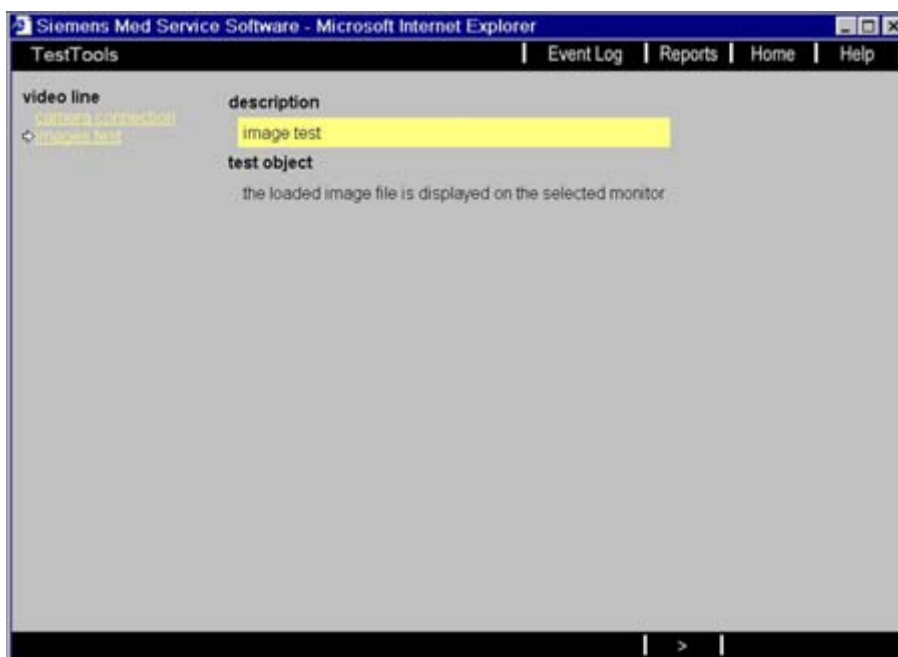


Fig. 159: TestTools_Image test

- Click on ">".

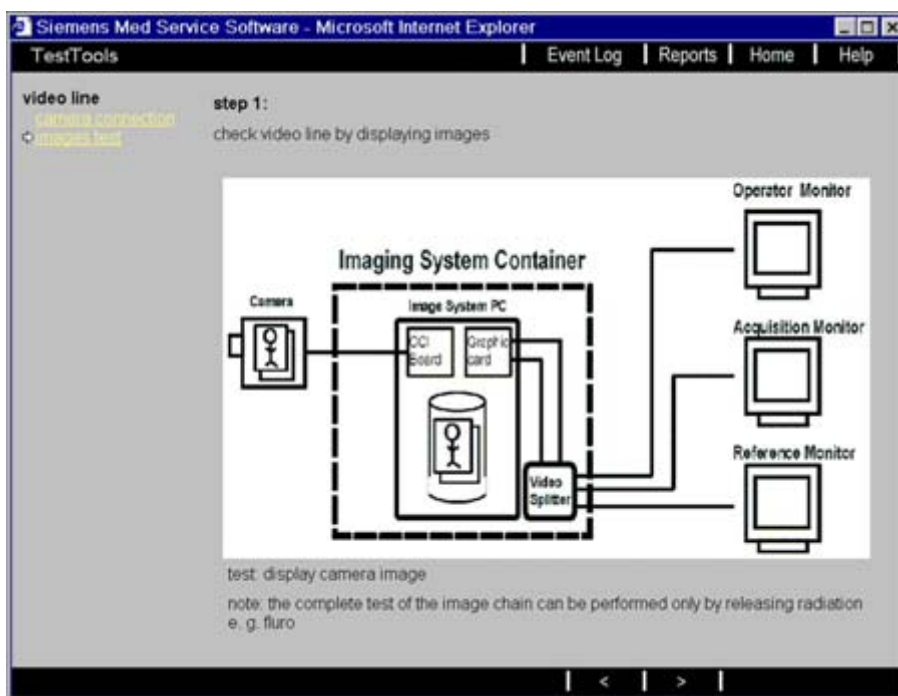


Fig. 160: TestTools_Check video

- Click on ">".

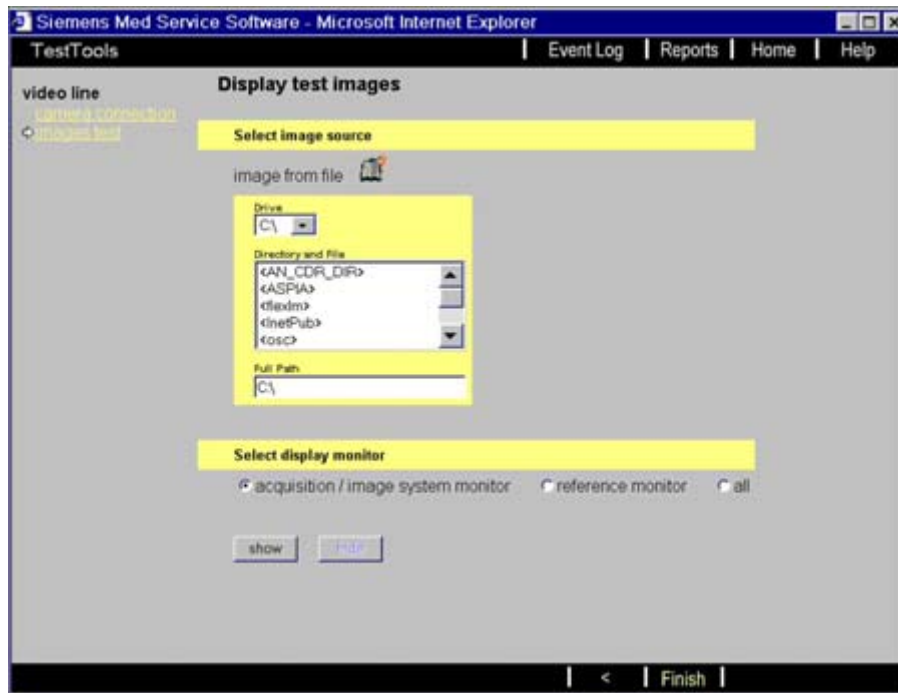


Fig. 161: TestTools_Display test images

- Click on the book with the question mark for more information.

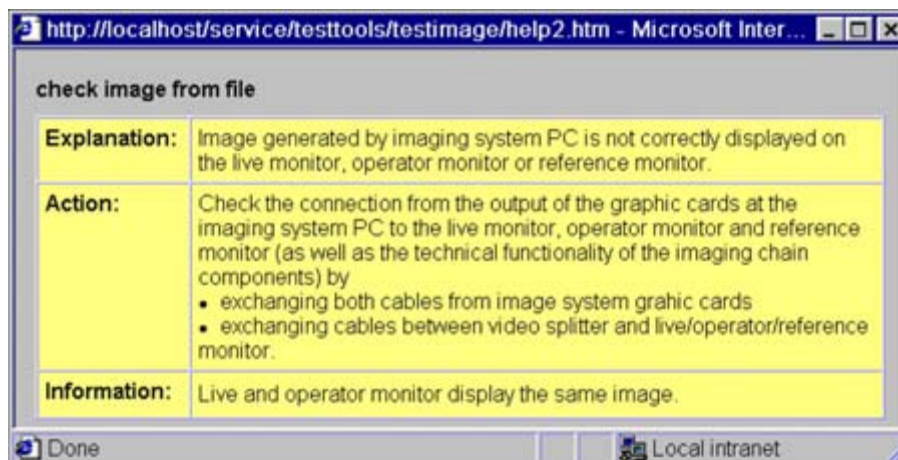


Fig. 162: TestTools_Image test_Help

- Select "C:\\" under Drive.
- Select "<Testimages>" under Directory and File.

- Select "<Testimages8Bit>" under Directory and File.



Fig. 163:

- Select a test image.
 - The complete path is displayed under "Full path".

Select "Display monitor".

- Select the monitor for image display.
- Select "Show".
 - The selected image is displayed. The "TFTCalibration.img" test image is used to calibrate TFT monitors.
- Select "Hide" to delete the displayed image.

Network checklist

Network checklist (1+)

For SAP order no.:

Is the system networked (HIS/RIS, camera, PACS)?

Yes

No

Mandatory for imaging systems with a network connection!

In order to provide a factory-configured system for easy installation at the customer site, please return this completed checklist if the imaging system is connected to a network.

Person responsible for the network configuration at the customer site

Name:	
Phone/fax:	
E-mail:	

Tab. 10 System network data

		Not networked
Identification:		
Computer name		Configuration/Local Host/TCP IP address
IP address:		
TCP/IP address		Configuration/Local Host/TCP IP address
Subnet mask		Configuration/Local Host/TCP IP address
Gateways		Configuration/Local Host/TCP IP address
General: Local AE title for:		
HIS/RIS		* Configuration/DICOM/General
Study transfer		* Configuration/DICOM/General
Print		* Configuration/DICOM/General
Remarks:		

Tab. 11 Network data for HIS/RIS network partner (only with HIS/RIS option)

		Not available
Product:	Version:	Manufacturer:
Host properties:		
Host name		* Configuration/DICOM/HIS RIS nodes
TCP/IP address		* Configuration/DICOM/HIS RIS nodes

General node properties		
Logical name		* Configuration/DICOM/HIS RIS nodes
Application entity		
AE title		* Configuration/DICOM/HIS RIS nodes
Port number		* Configuration/DICOM/HIS RIS nodes
Remarks:		

Network checklist (2+)

Tab. 12 Network data for diagnostic console/archive system (only with DICOM Basic option) (1)

Information for any:	Diagnostic console/archive system		Not available
Product:	Version:		Manufacturer:
Host properties:			
Host name			* Configuration/DICOM/network nodes
TCP/IP address			* Configuration/DICOM/network nodes
General node properties:			
Logical name			* Configuration/DICOM/Network nodes
Application entity:			
AE title			* Configuration/DICOM/Network nodes
Port number			* Configuration/DICOM/Network nodes
Supported DICOM services:			
Storage	Yes	No	* Configuration/DICOM/Network nodes
Storage commitment	Yes	No	* Configuration/DICOM/Network nodes
	Node name:		* Configuration/DICOM/Network nodes
Query	Yes	No	* Configuration/DICOM/Network nodes
Retrieve	Yes	No	* Configuration/DICOM/Network nodes
Remarks			

Tab. 13 Network data for diagnostic console/archive system (only with DICOM Basic option) (2)

Information for any:	Diagnostic console/archive system		Not available
Product:	Version:		Manufacturer:
Host properties:			
Host name			* Configuration/DICOM/Network nodes
TCP/IP address			* Configuration/DICOM/Network nodes
General node properties:			
Logical name			* Configuration/DICOM/Network nodes
Application entity:			
AE title			* Configuration/DICOM/Network nodes
Port number			* Configuration/DICOM/Network nodes
Supported DICOM services:			
Storage	Yes	No	* Configuration/DICOM/Network nodes
Storage commitment	Yes	No	* Configuration/DICOM/Network nodes
	Node name:		* Configuration/DICOM/Network nodes
Query			* Configuration/DICOM/Network nodes
Retrieve	Yes	No	* Configuration/DICOM/Network nodes
Remarks			

Network checklist (3-)

Tab. 14 Network data for a DICOM camera in the network (only with the DICOM Print option) (1)

Information for:	Any camera		No camera available
Product:	Version:		Manufacturer:
Default camera	Yes	No	
Host properties:			
Host name			* Configuration/DICOM/Print devices
TCP/IP address			* Configuration/DICOM/Print devices
General node properties:			
Logical name			* Configuration/DICOM/Print devices
Application entity:			
AE title			* Configuration/DICOM/Print devices

Information for:	Any camera	No camera available
Port number		* Configuration/DICOM/Print devices
Remarks:		

Tab. 15 Network data for a DICOM camera in the network (only with the DICOM Print option) (2)

Information for:	Any camera		No camera available
Product:	Version:		Manufacturer:
Default camera	Yes	No	
Host properties:			
Host name			* Configuration/DICOM/Print devices
TCP/IP address			* Configuration/DICOM/Print devices
General node properties:			
Logical name			* Configuration/DICOM/Print devices
Application entity:			
AE title			* Configuration/DICOM/Print devices
Port number			* Configuration/DICOM/Print devices
Remarks:			

Definitions and Abbreviations	List of abbreviations increased
Preparatory Activities	Additions made to "General Information"; 3 points added to the "Create Backup" subchapter
Basic Configuration/License Import	Serial number information added
syngo Configuration	Serial number information added; additional default value (xrfCorr16b-bspline) added to the correction LUT to be configured for XRFImage in the "LUT Files" subchapter; directory configuration revised in the "Import/Export" subchapter; additional directories for XBurner package added in the "Backup/Restore" subchapter
UROSOP Access Imaging System Configuration	Information regarding "Checking the set values for dose or dose rate" added
Restore	Information (warning) added
Supplementary Configuration	"Checking the Offline Devices" subchapter completely revised; "Checking the Import/Export Directories" subchapter added; two paths added for the XBurner package in the "Backup/Restore" subchapter; "Time Zone Settings" and "Manual Settings" subchapters added
User Program Installation	Chapter completely revised
Backup	Item removed from the "General Information" subchapter
Test Tools	First item removed
Changes to Previous Version	New chapter